

FIG. 1

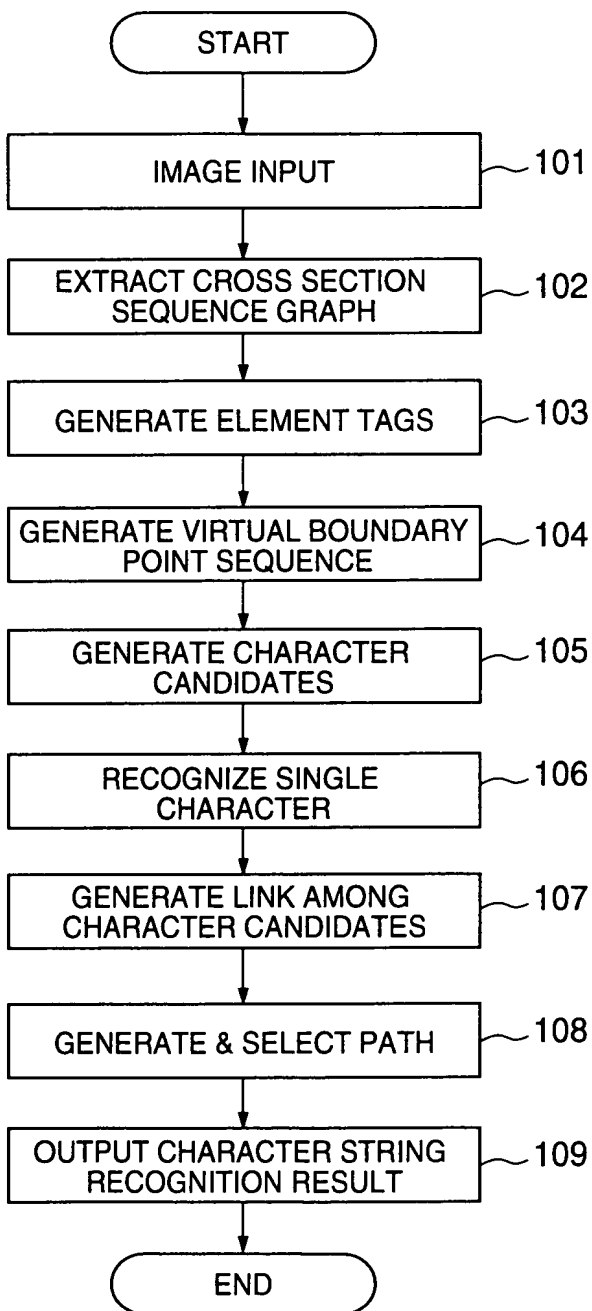


FIG. 2

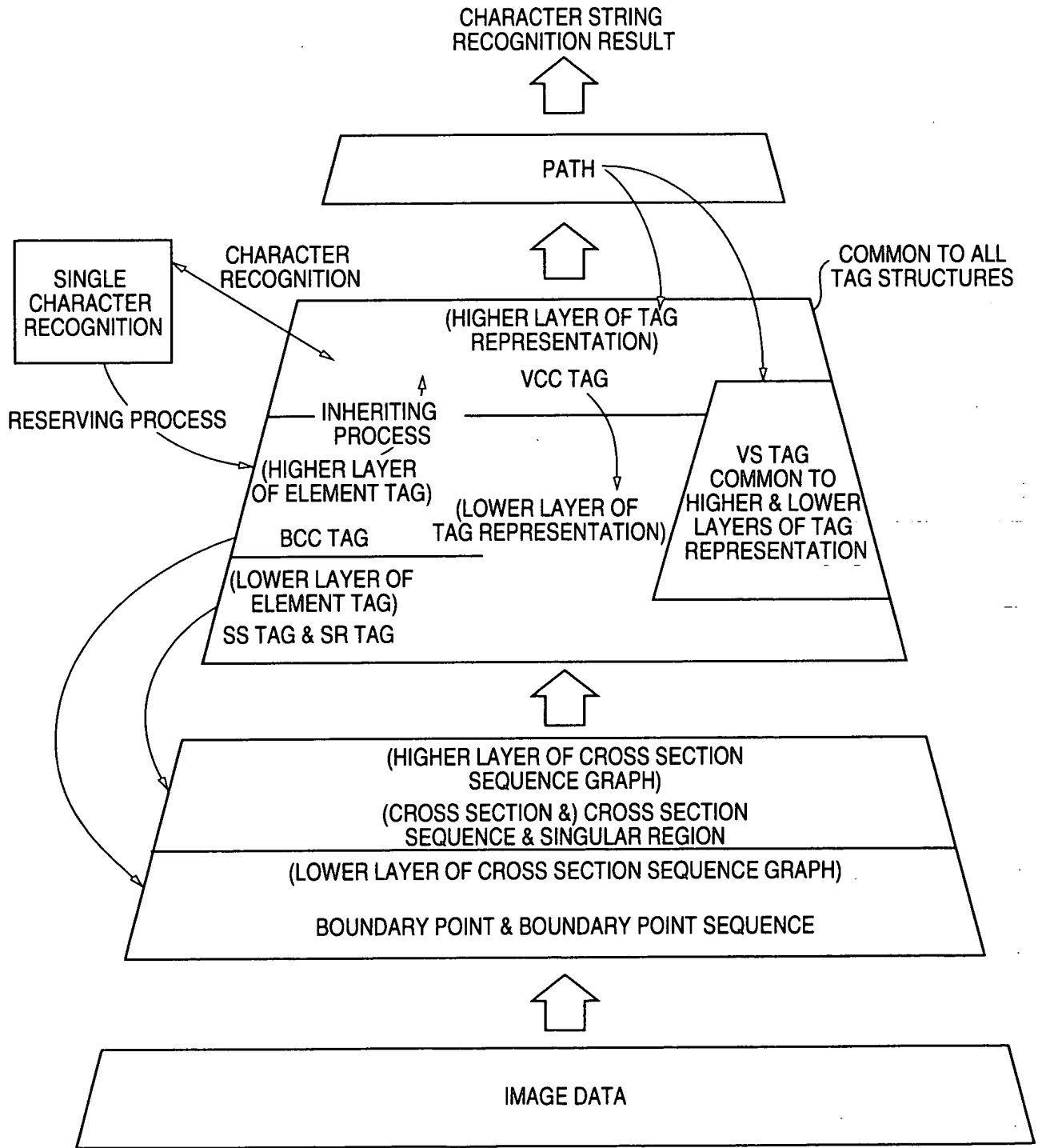


FIG. 3

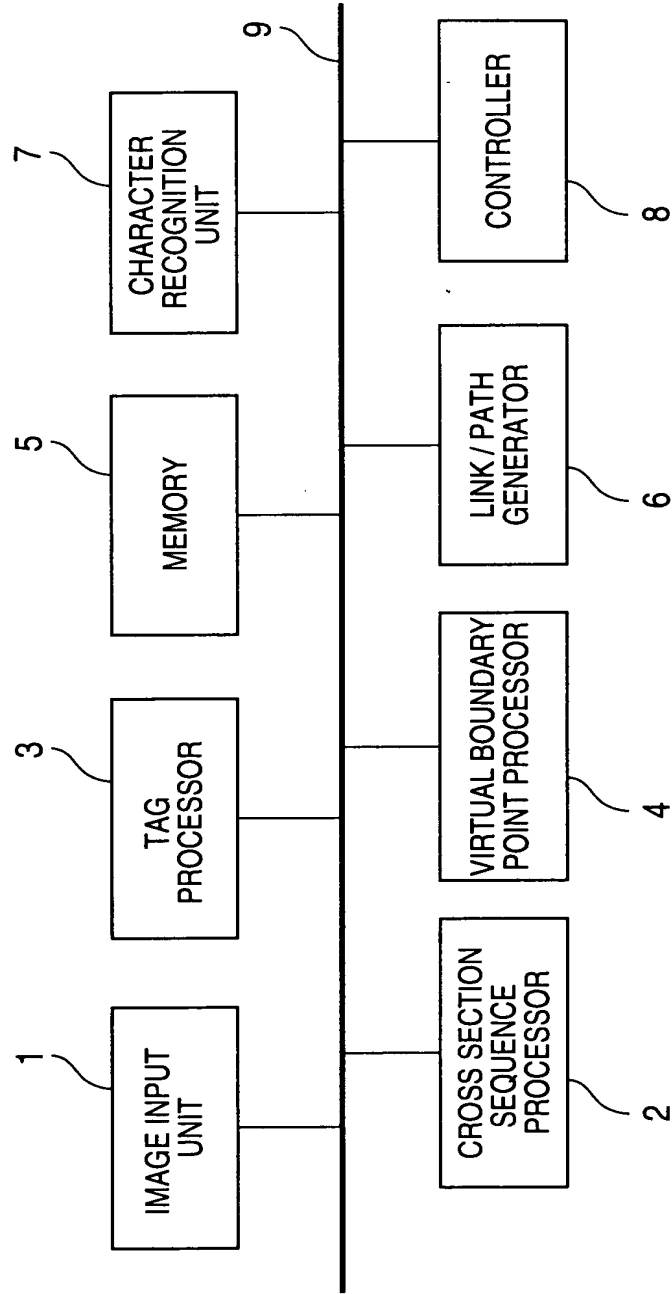


FIG. 4

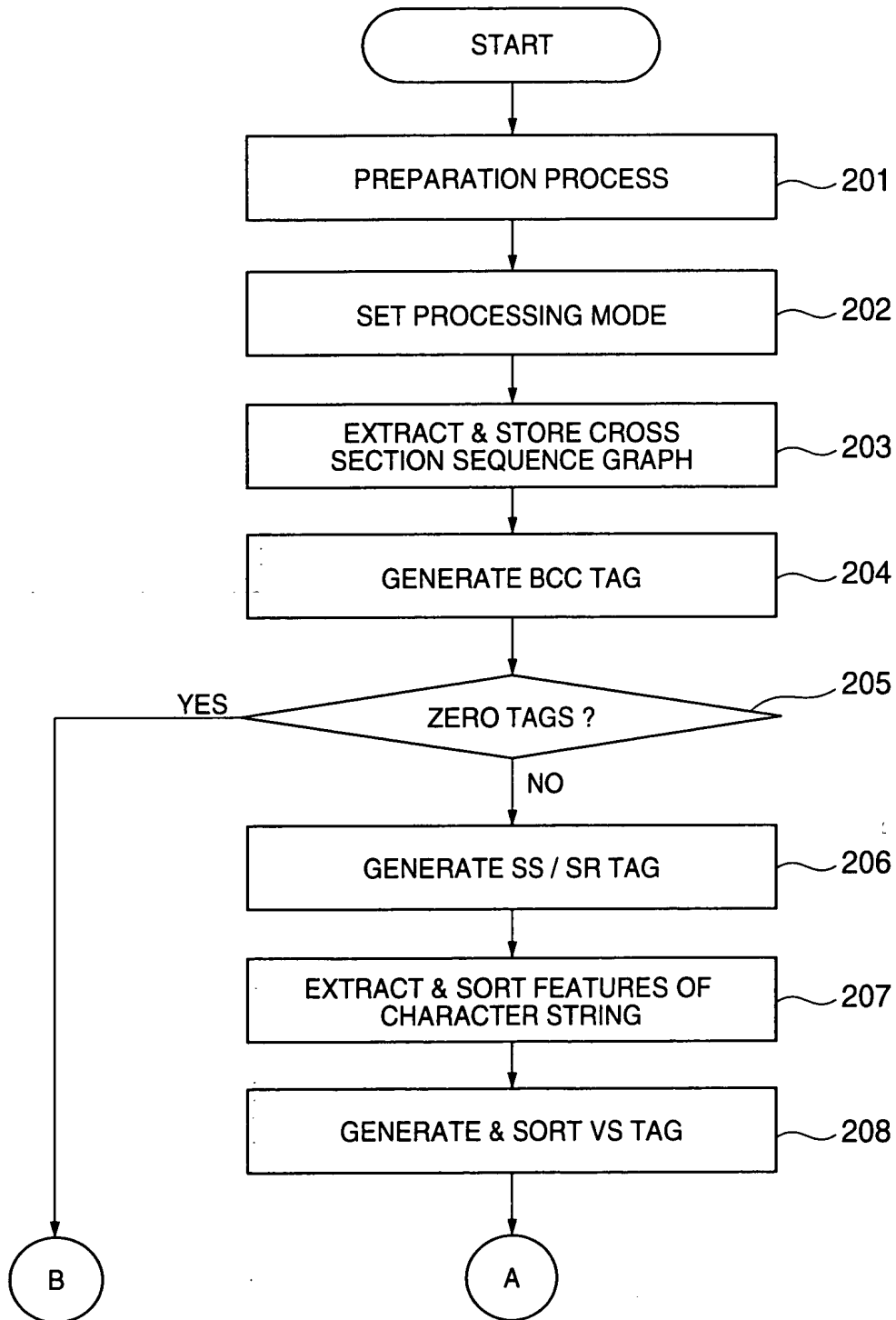


FIG. 5

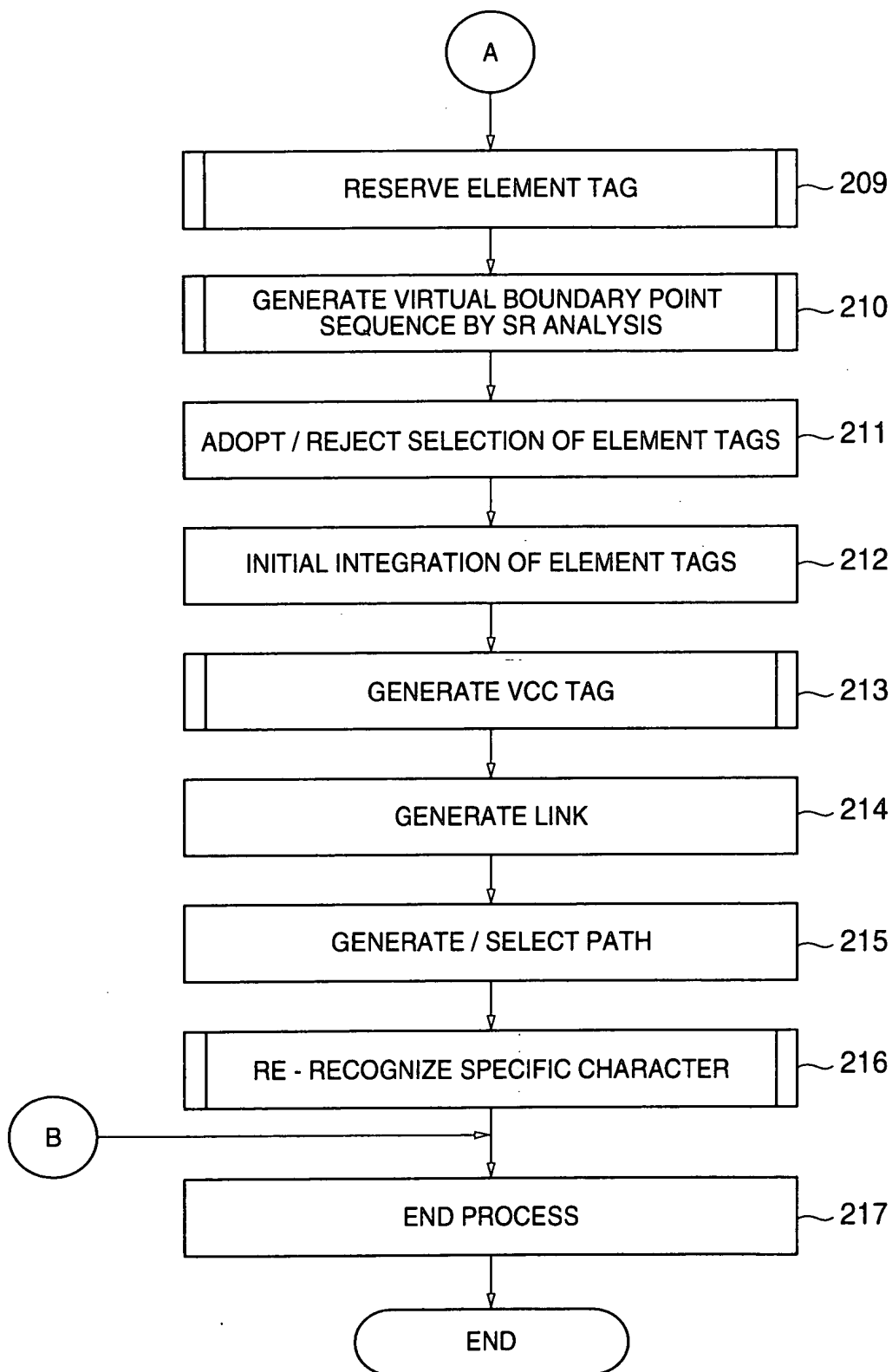


FIG. 6

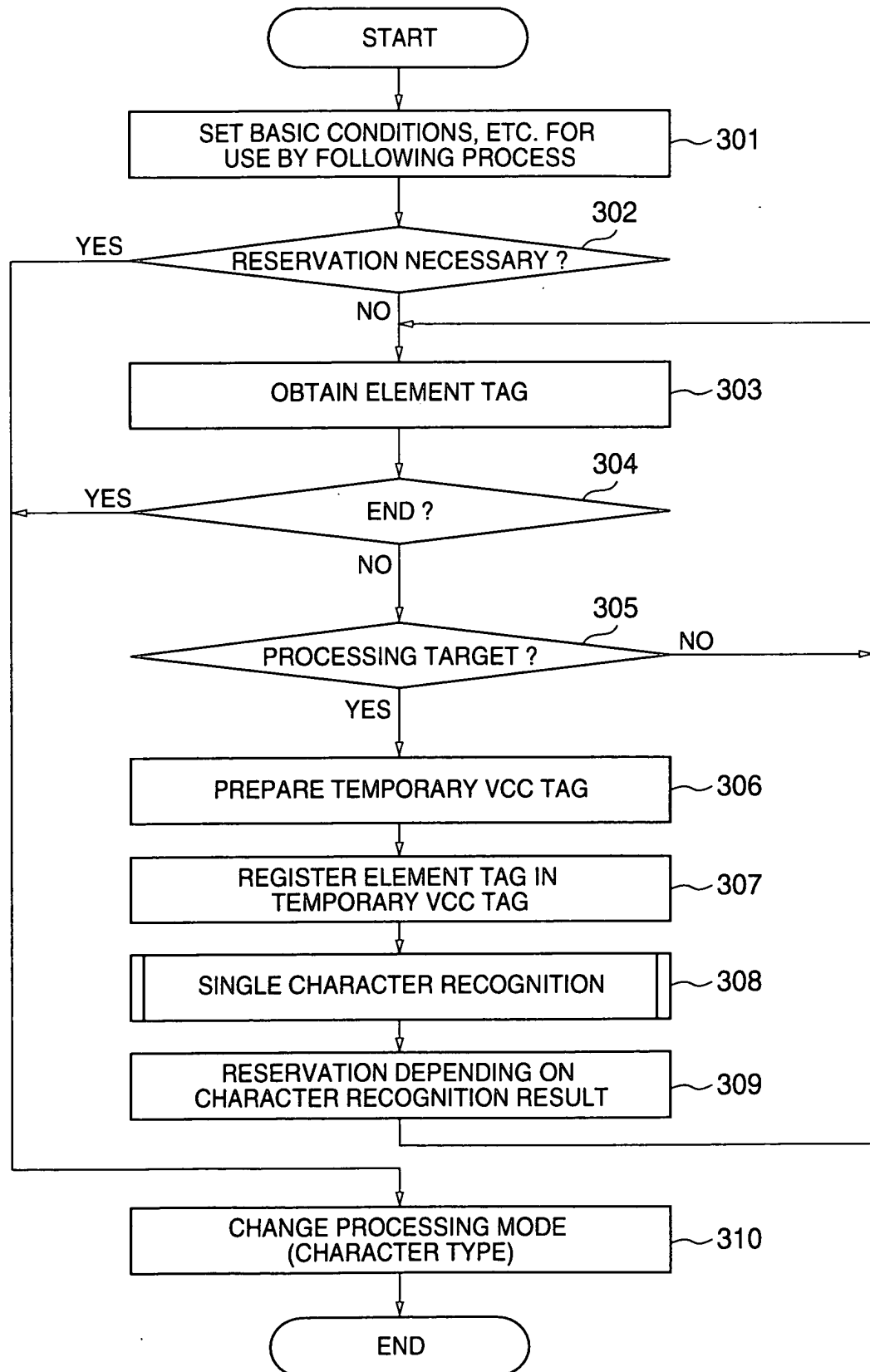


FIG. 7

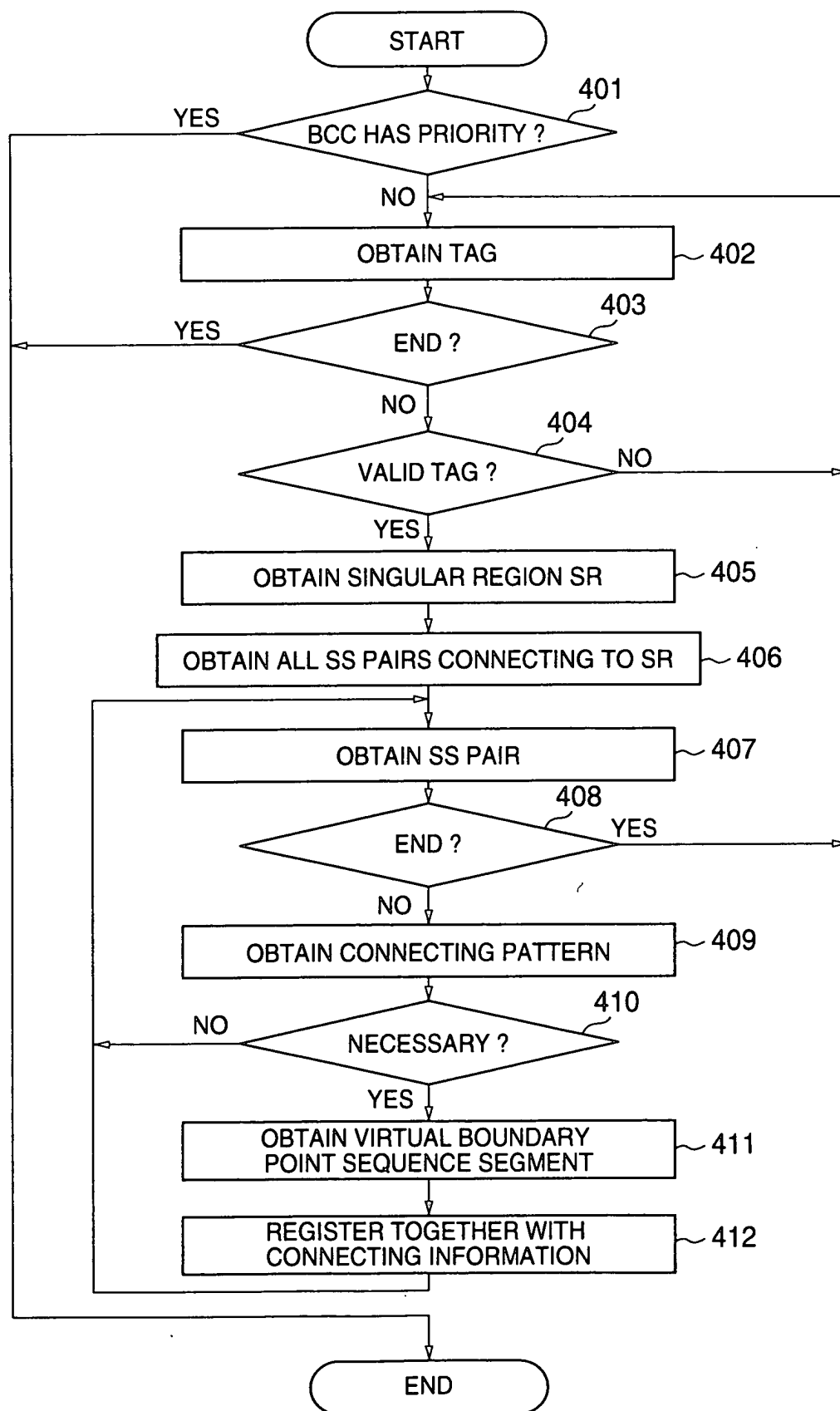


FIG. 8

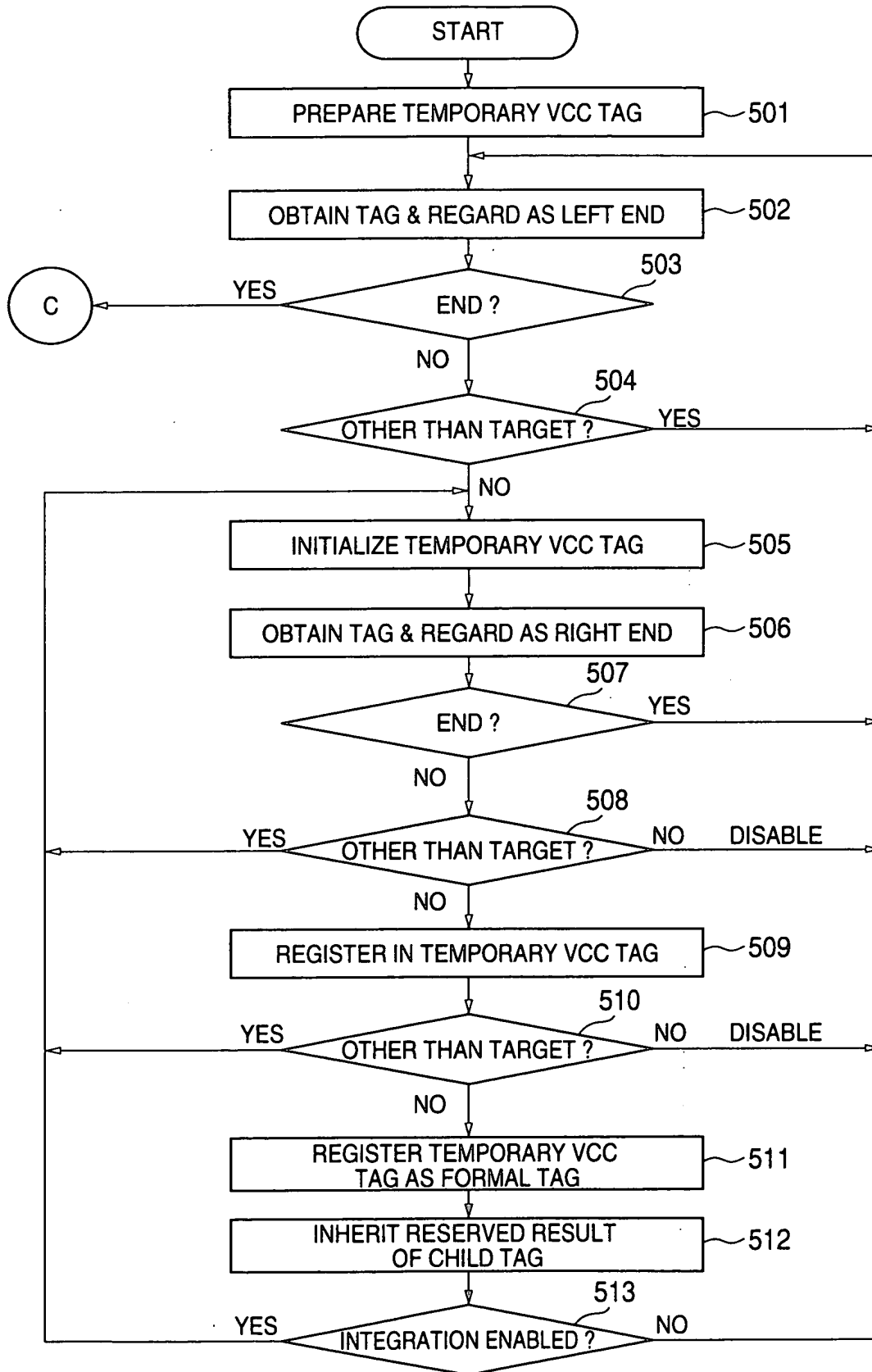


FIG. 9

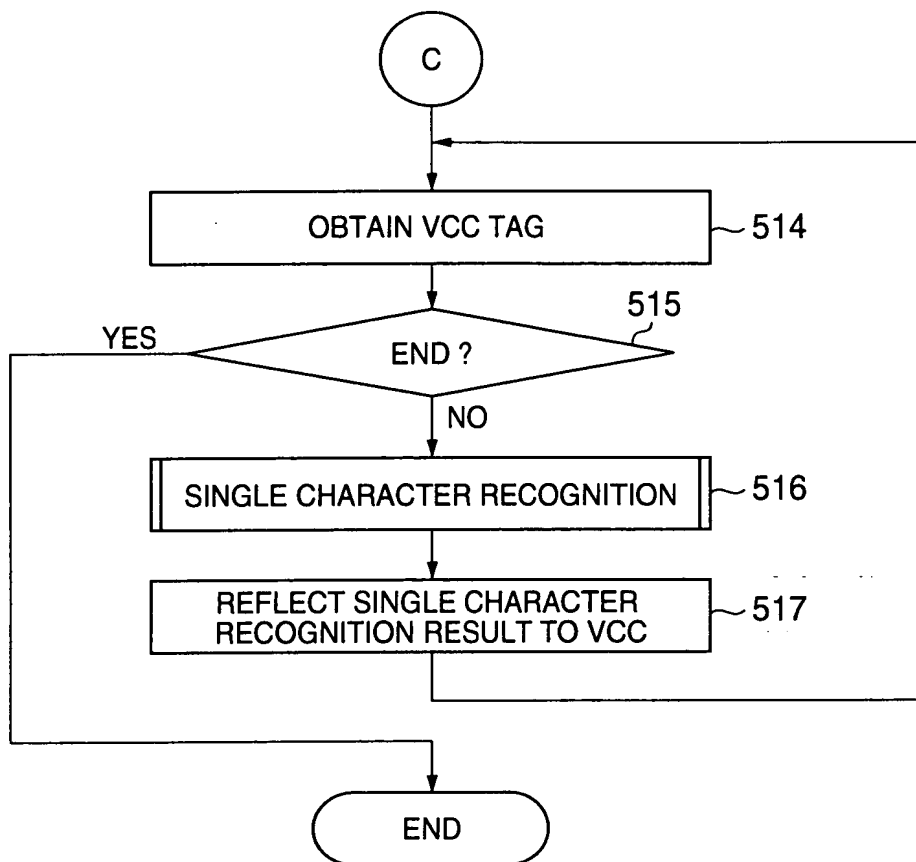


FIG. 10

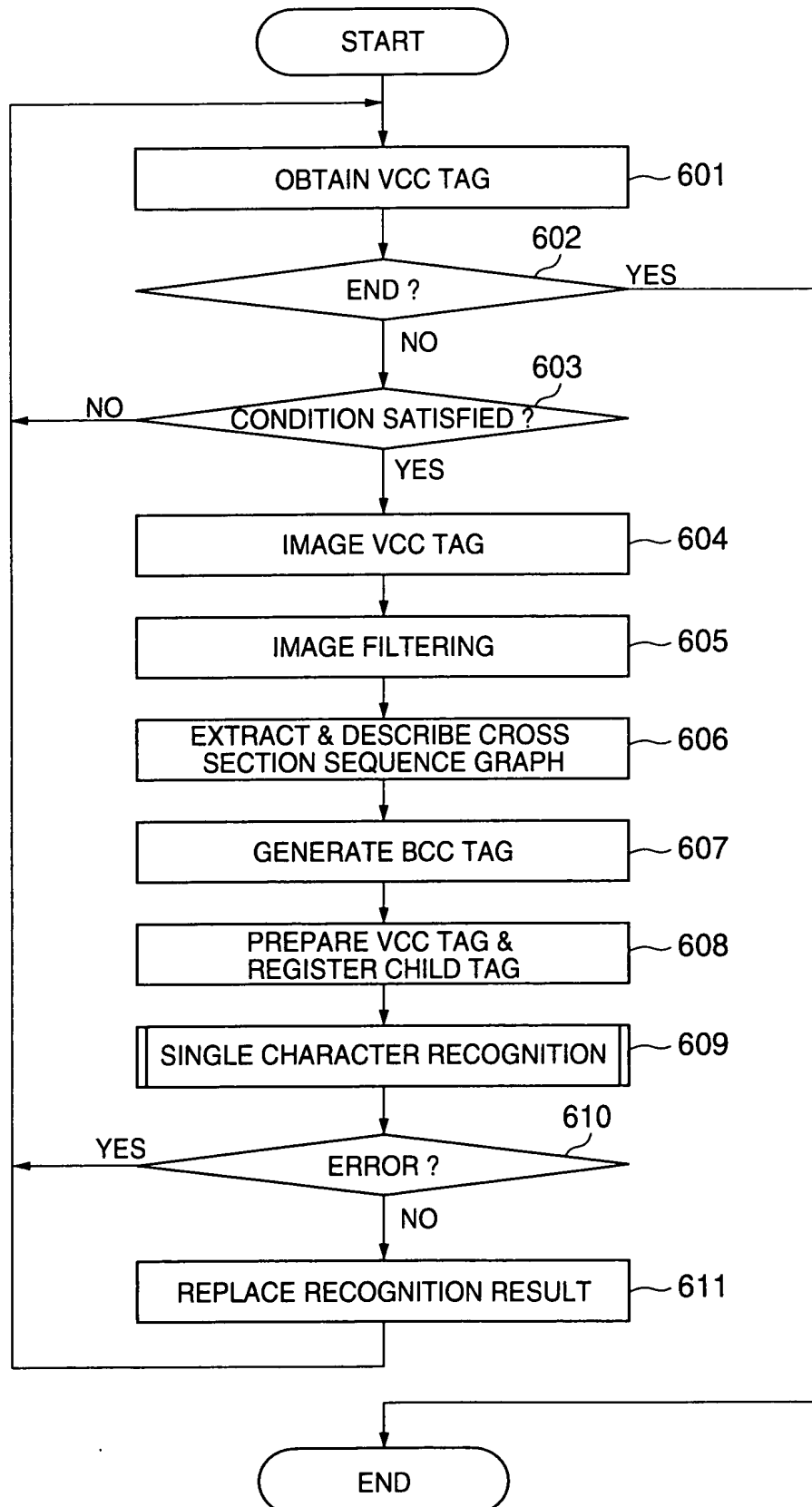


FIG. 11

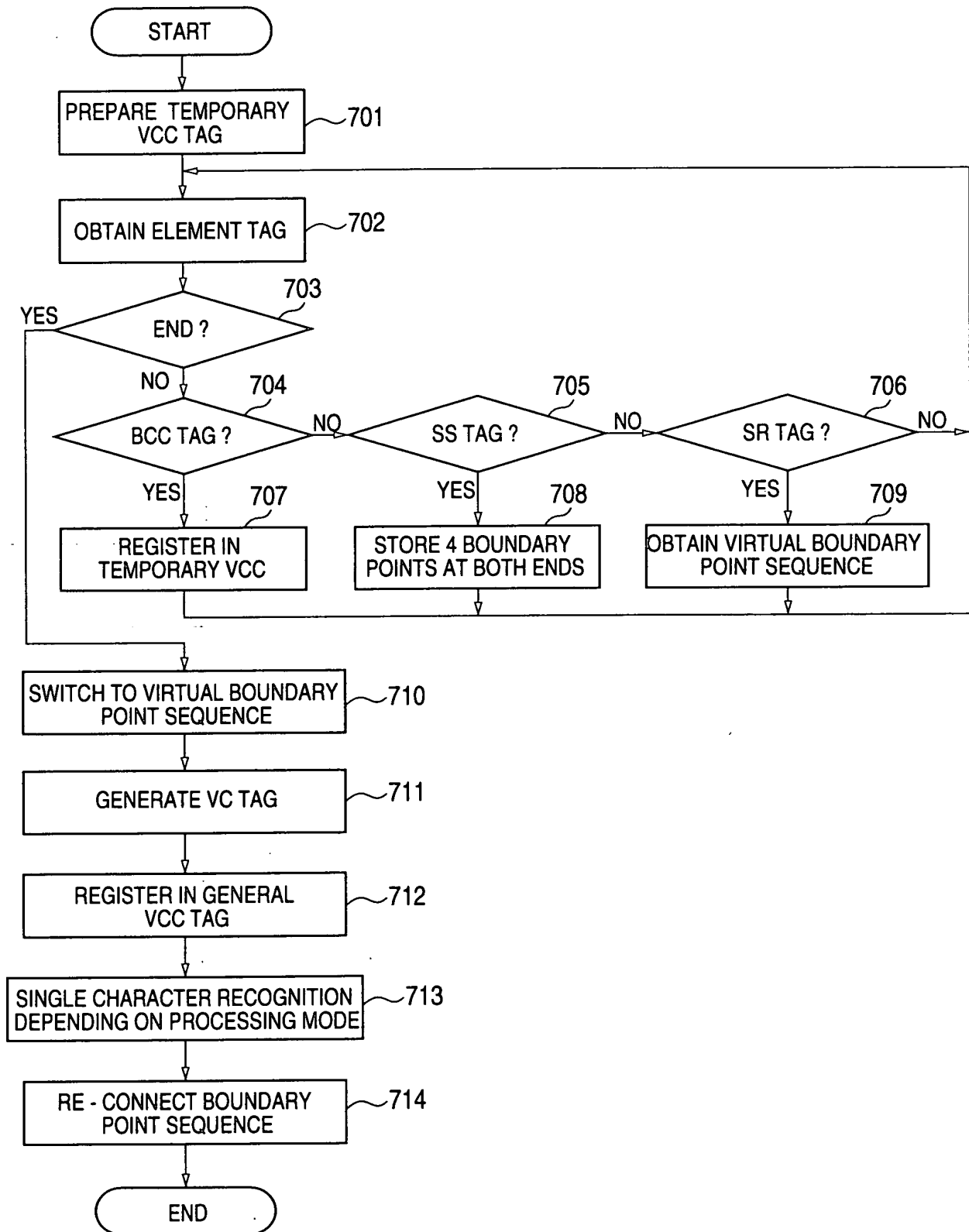


FIG. 12

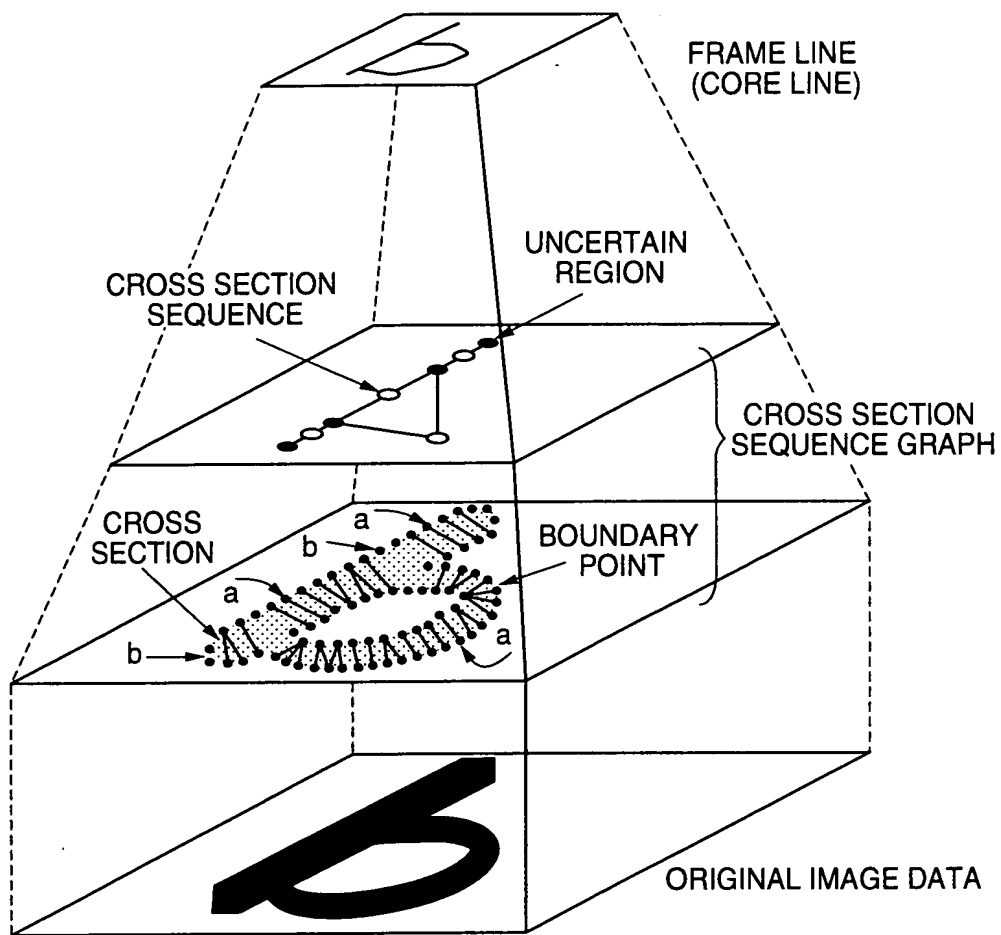
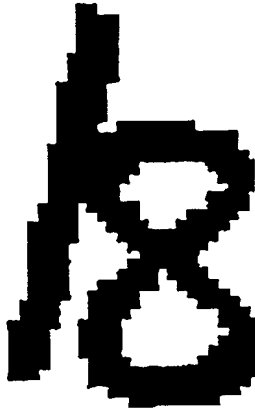
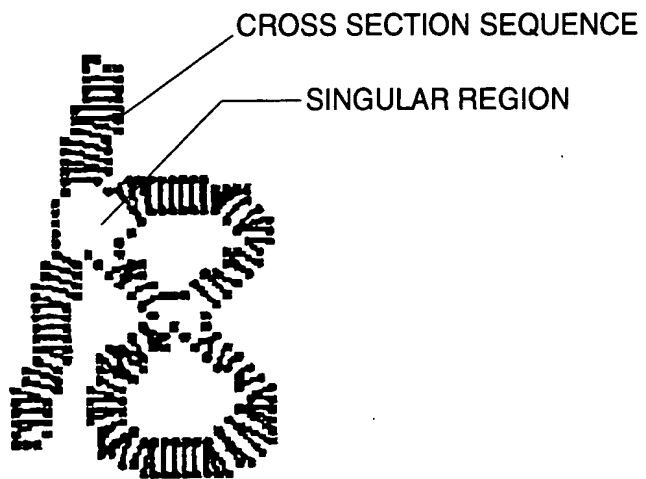


FIG. 13



CHARACTER STRING IMAGE

FIG. 14

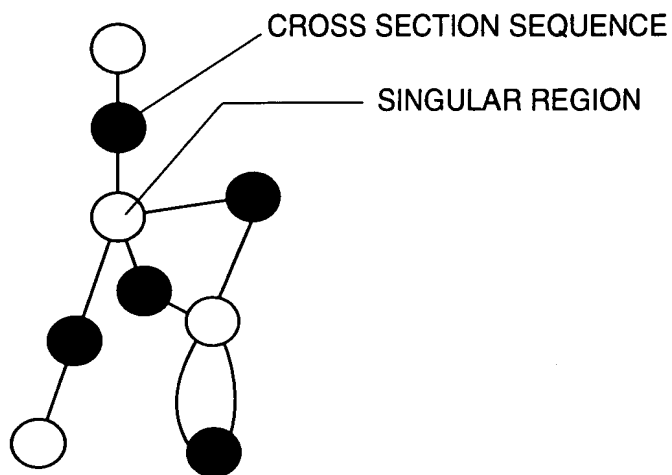


BOUNDARY POINT & CROSS SECTION

CROSS SECTION SEQUENCE GRAPH

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FIG. 15



CROSS SECTION SEQUENCE & SINGULAR REGION

CROSS SECTION SEQUENCE GRAPH

FIG. 16

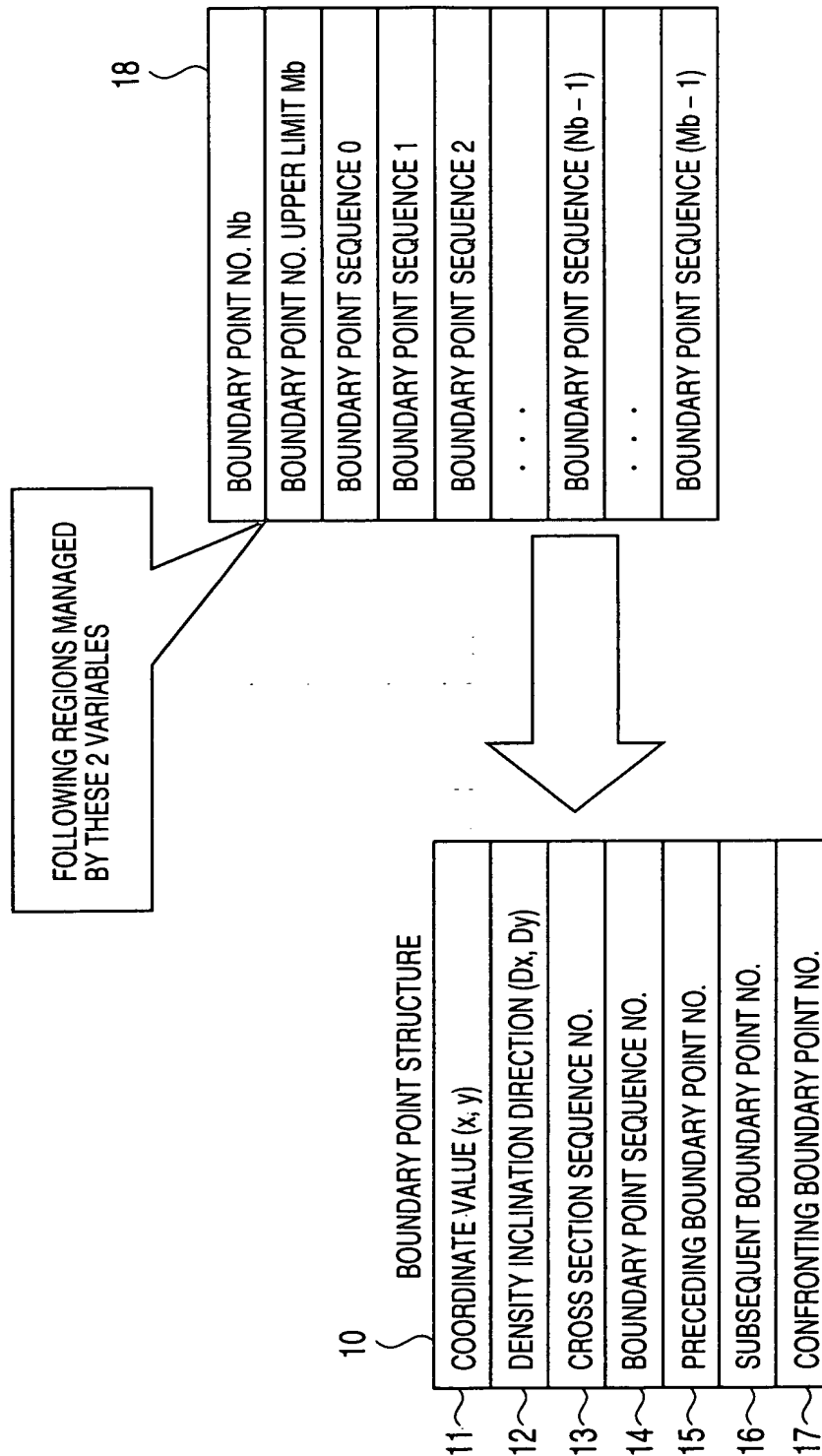


FIG. 17

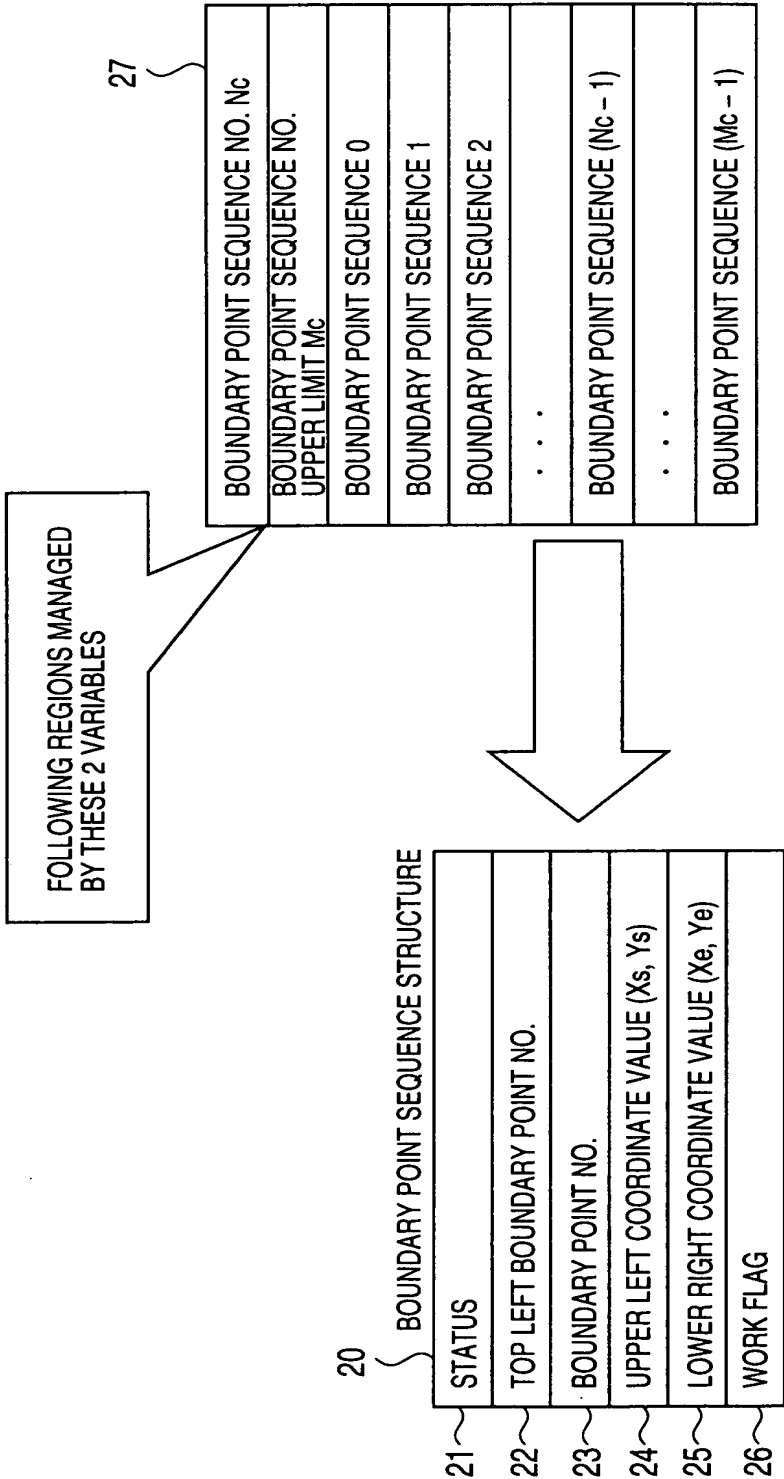


FIG. 18

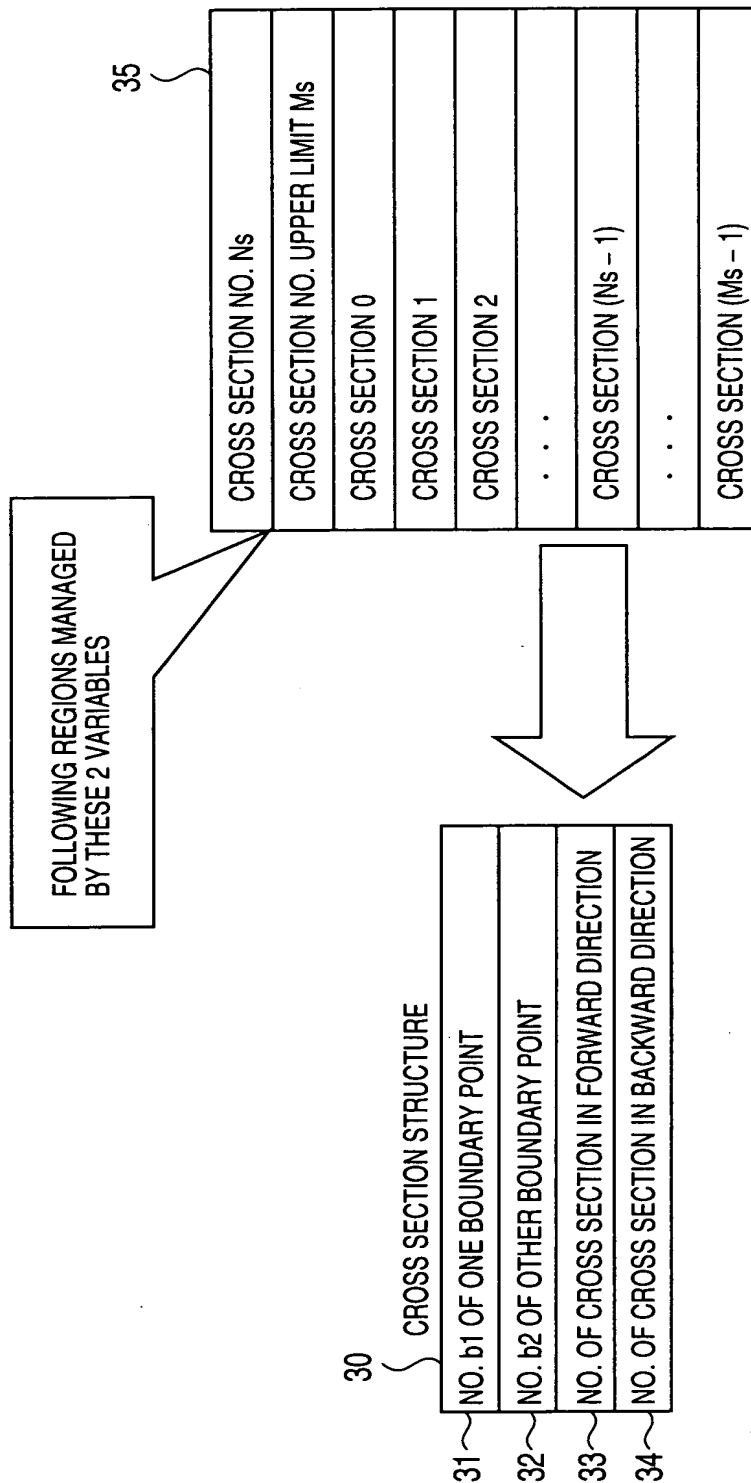


FIG. 19

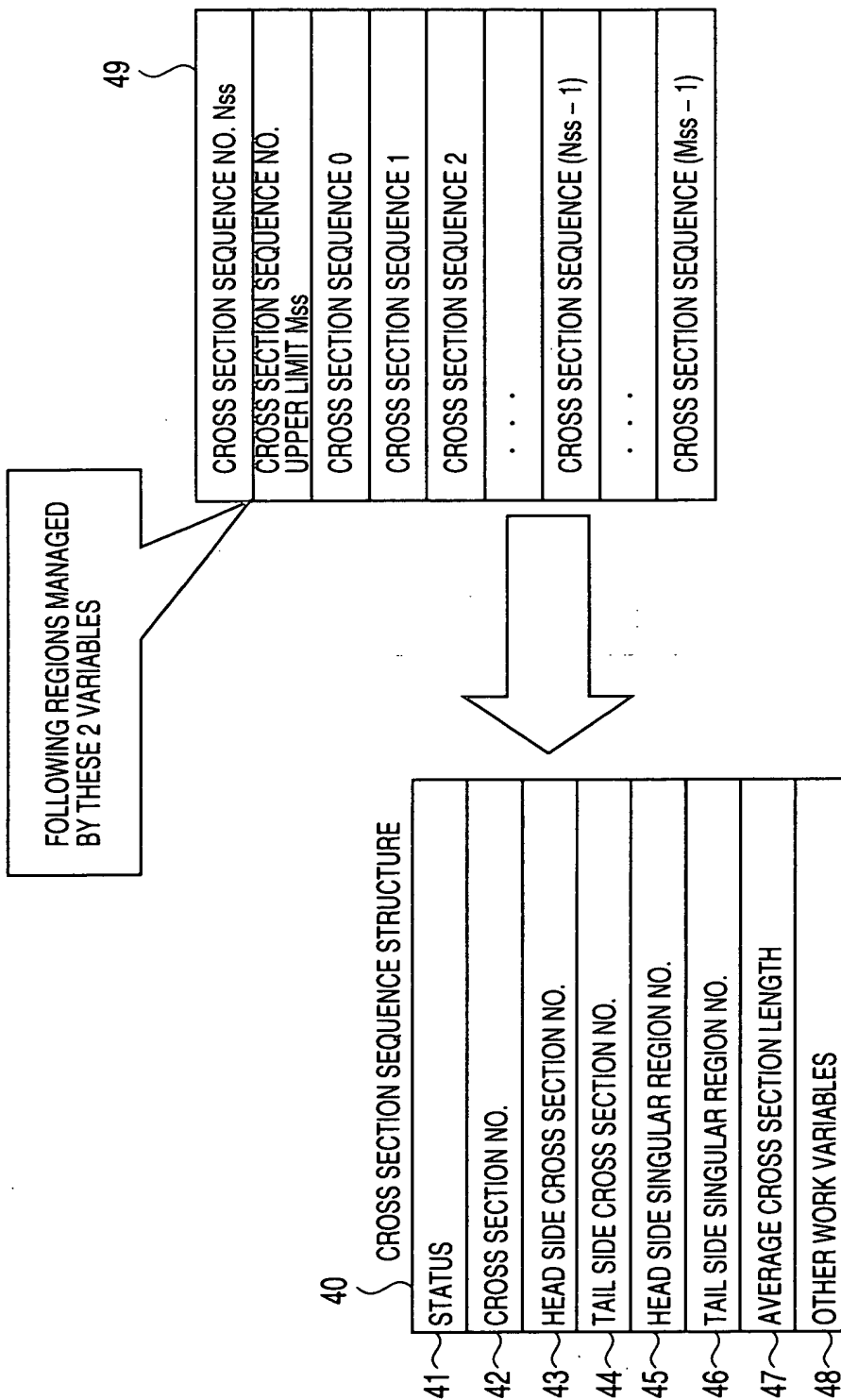


FIG. 20

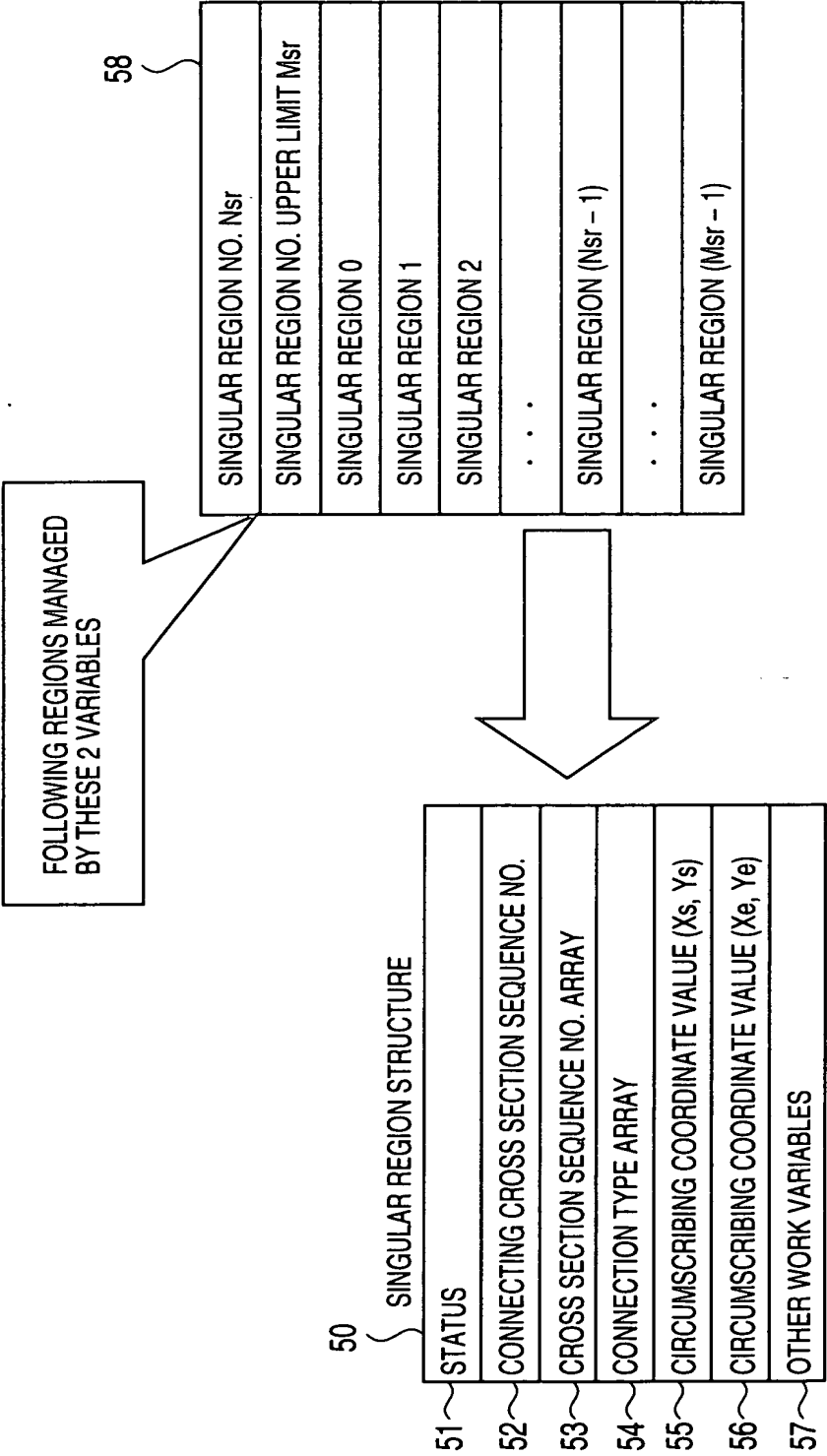


FIG. 21

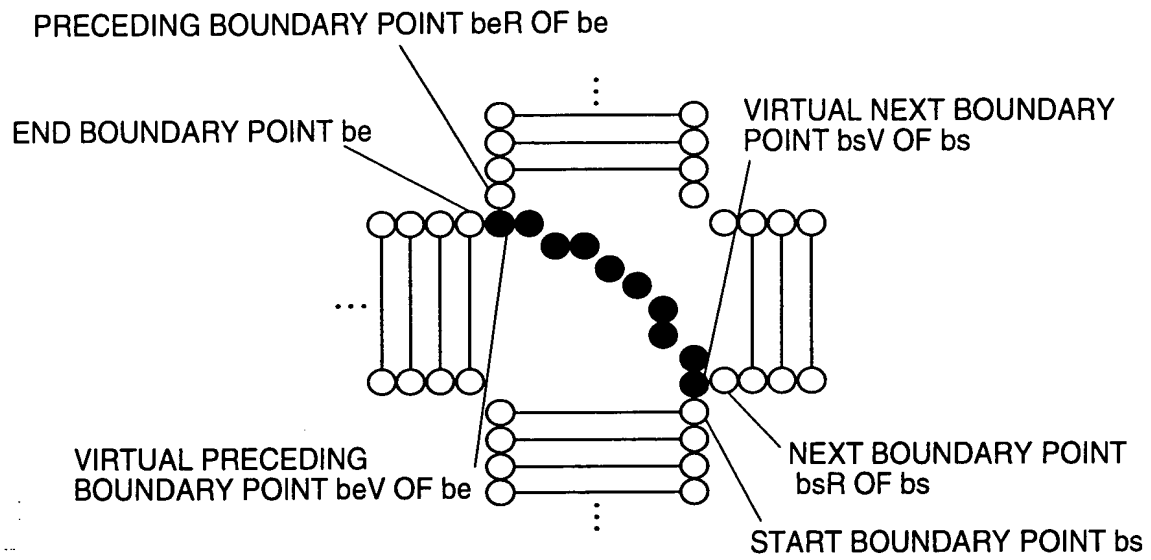


FIG. 22

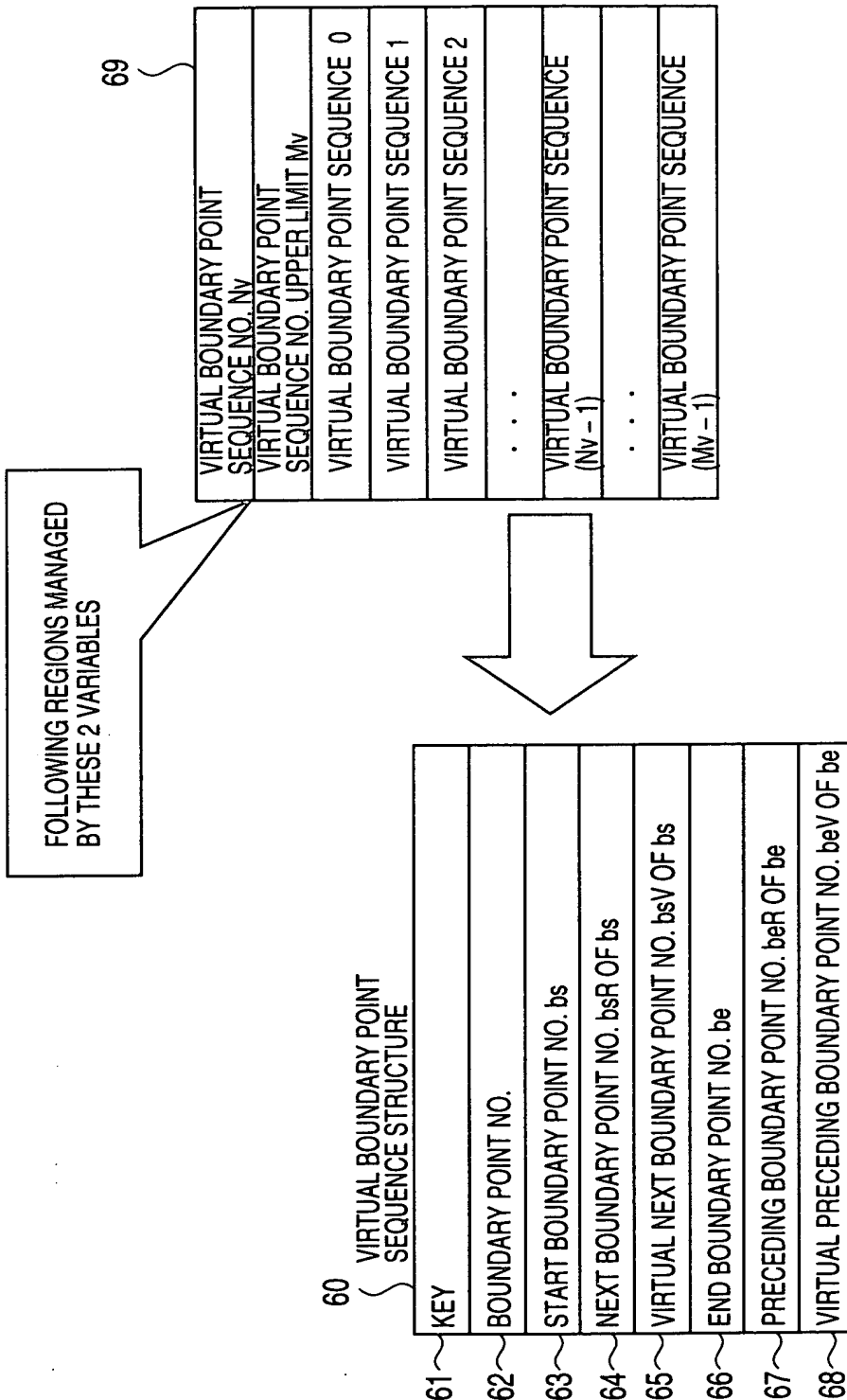


FIG. 23

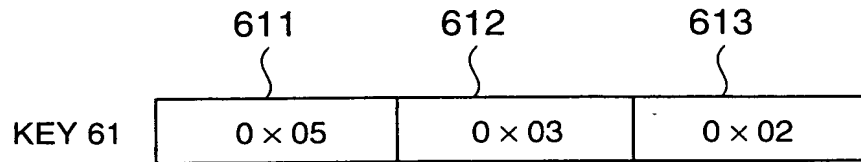


FIG. 24

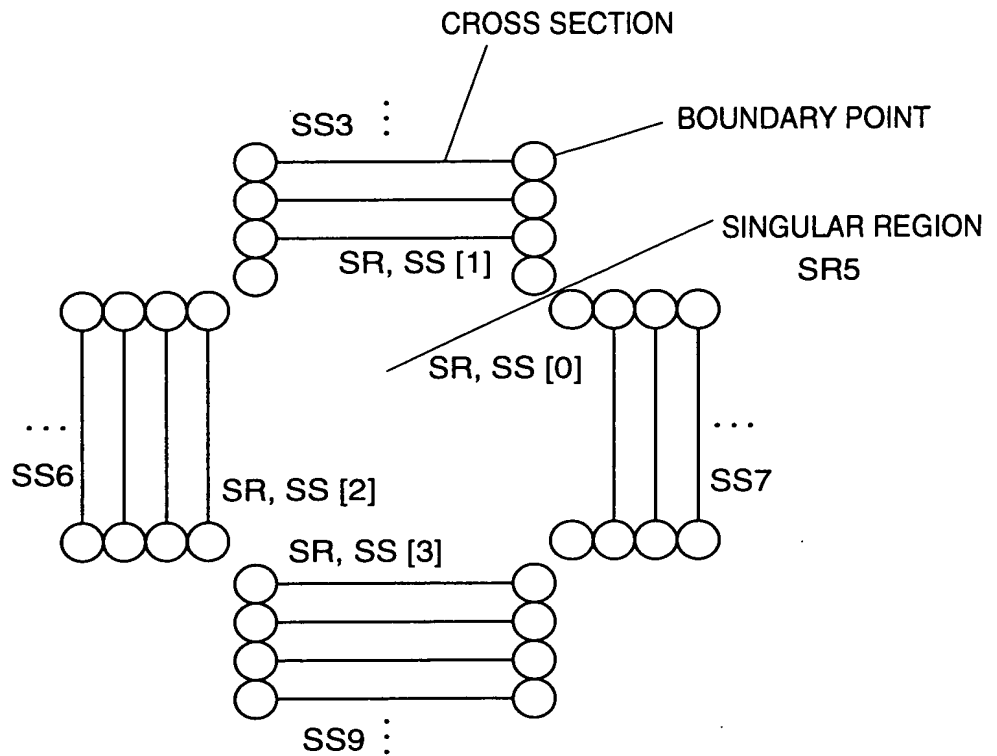


FIG. 25

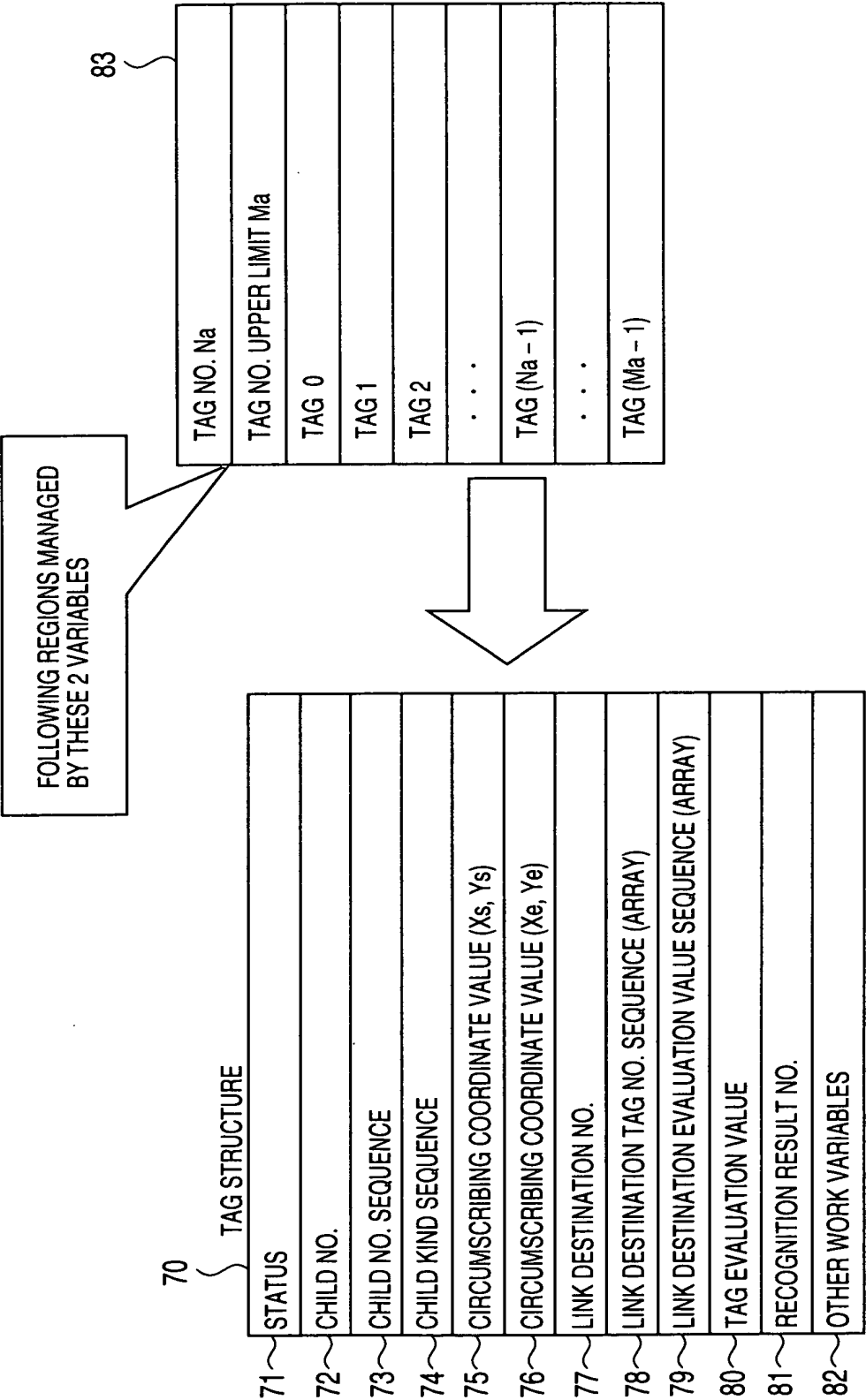


FIG. 26

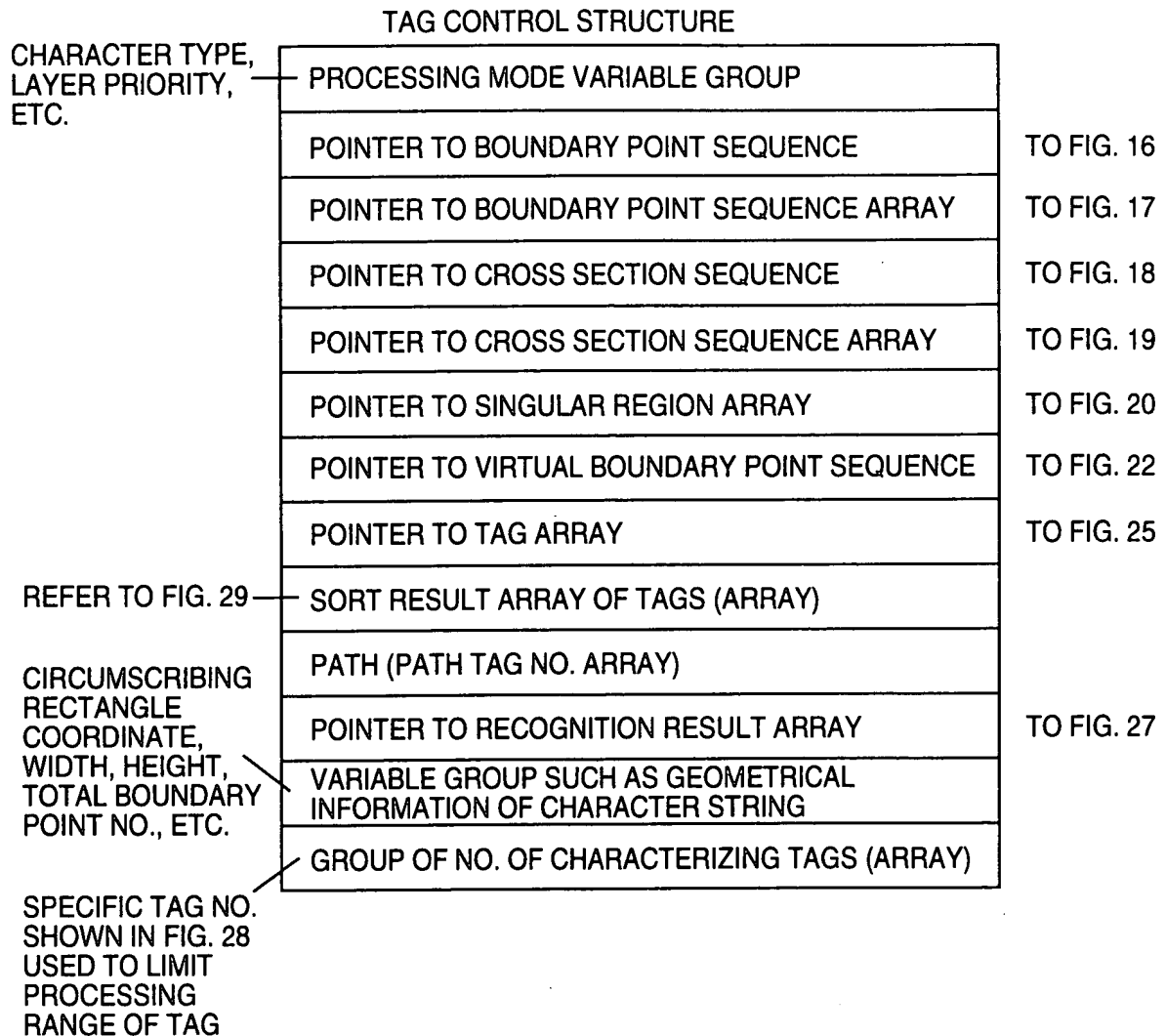


FIG. 27

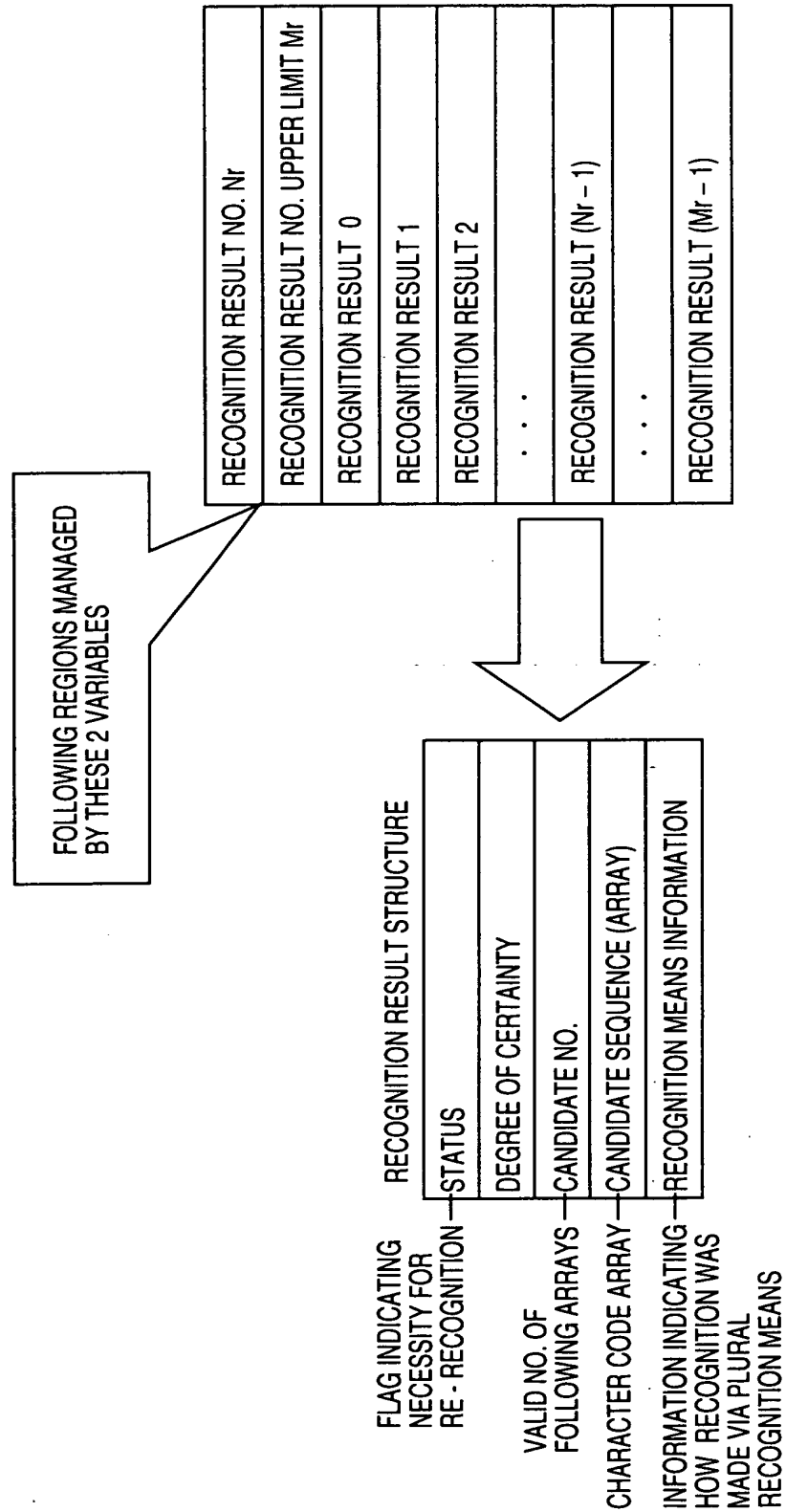


FIG. 28

BCC : NORMAL BCC TAG

SS : SS TAG

SR : SR TAG

R : ROUTE TAG (KIND OF VS TAG)

VS : VS TAG

E : END TAG (KIND OF VS TAG)

VCC : VCC TAG

VC : BCC TAG PARTIALLY REPLACED BY VIRTUAL BOUNDARY POINT SEQUENCE

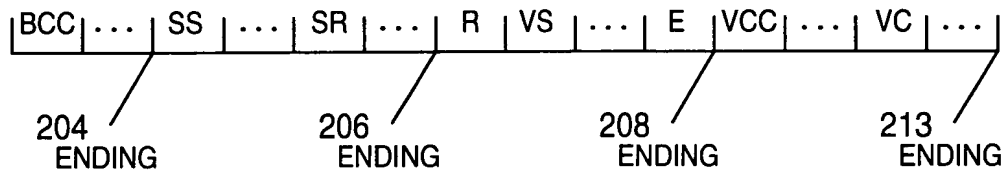


FIG. 29

TAG ARRAY
(RIGHT OF FIG. 25) | BCC | ... | SS | ... | SR | ... | R | VS | ... | E | VCC | ... | VC | ... |

TAG SORT
RESULT ARRAY | | | | | | | | | | | | | | | |

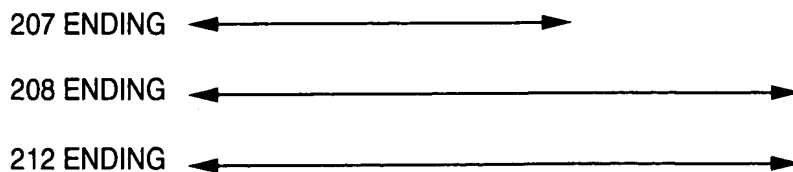


FIG. 30

50 2

IMAGE DATA

50 2

FIG. 31

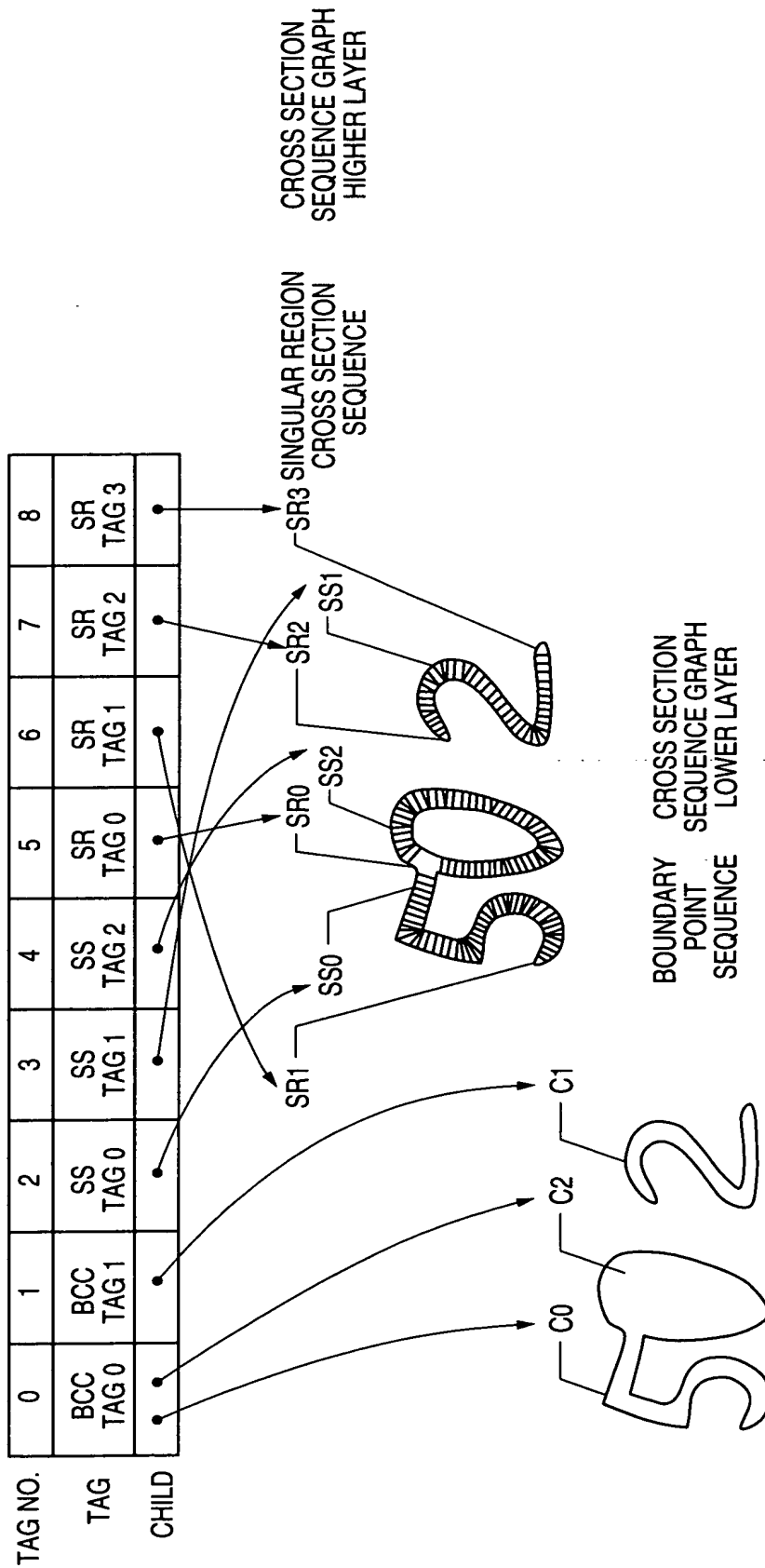


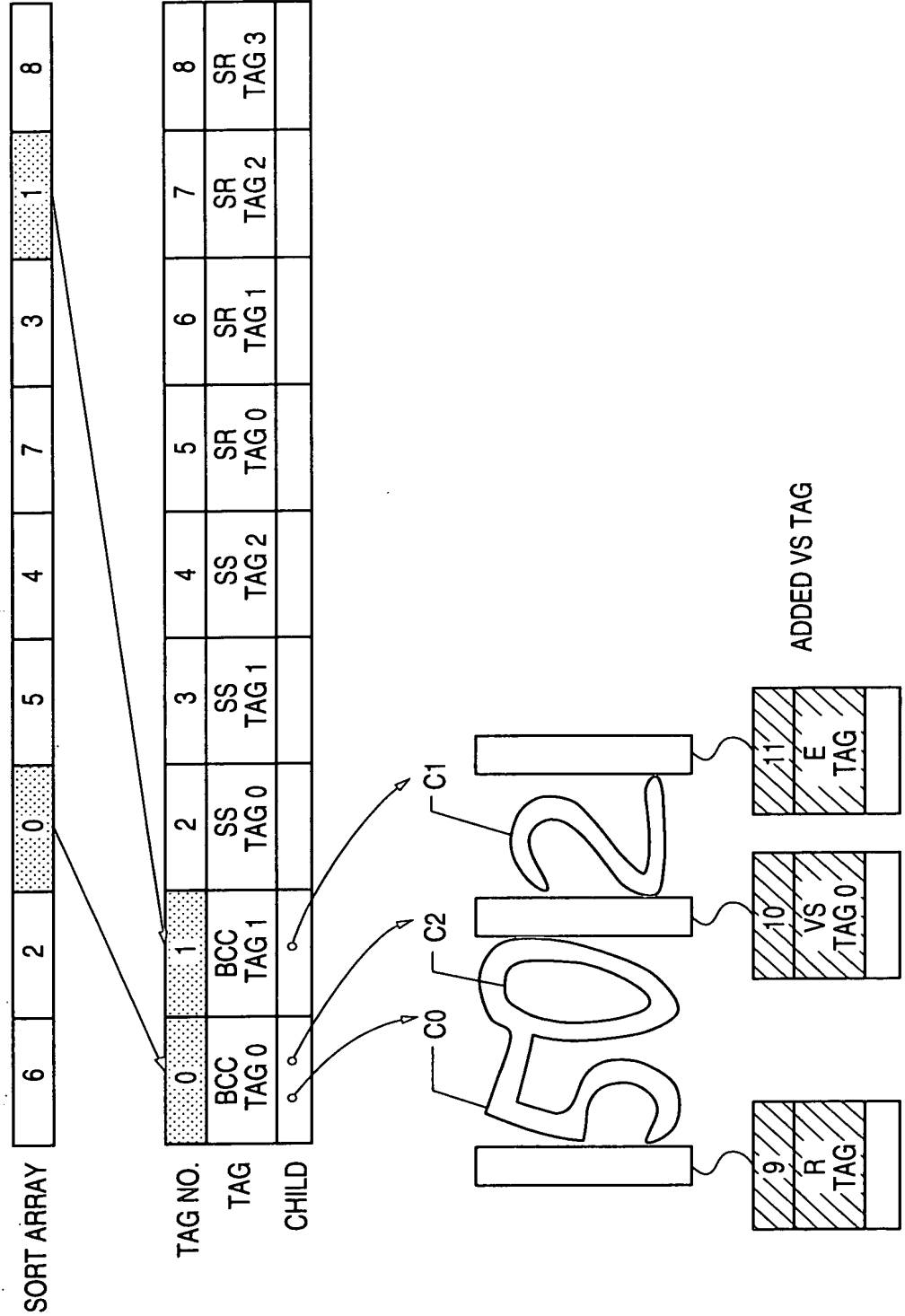
FIG. 32

TAG NO.

SORT ARRAY	6	2	0	5	4	7	3	1	8
------------	---	---	---	---	---	---	---	---	---

FIG. 33

BCC TAGS ADJACENT
BY SORTING



[illegible]

NEGATIVE BLANK

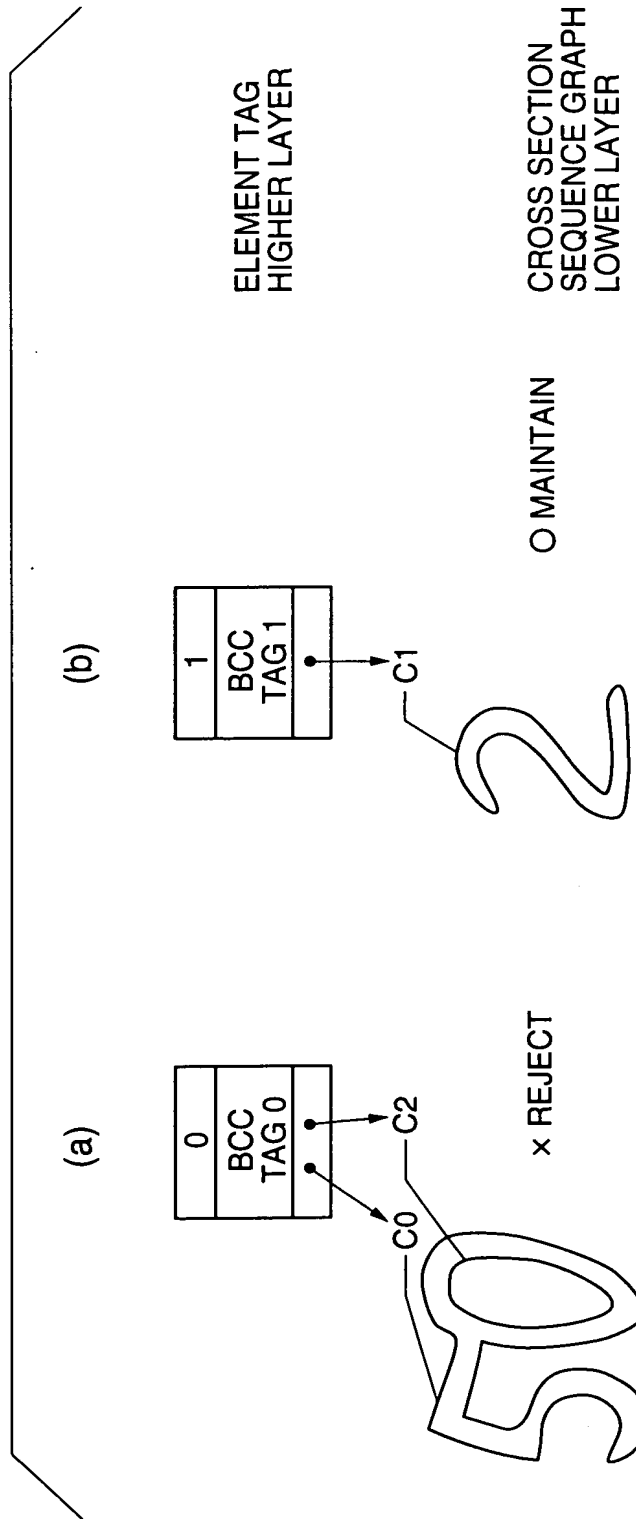
FIG. 35

SORT RESULT INCLUDING VS TAG

SORT ARRAY	9	6	2	0	5	4	10	7	3	1	8	11
TAG NO.	0	1	2	3	4	5	6	7	8	9	10	11
	BCC TAG 0	BCC TAG 1	SS TAG 0	SS TAG 1	SS TAG 2	SR TAG 0	SR TAG 1	SR TAG 2	SR TAG 3	R TAG	VS TAG 0	E TAG
CHILD												

ADDED
VS TAG

FIG. 36



[illegible]

[illegible]

FIG. 39

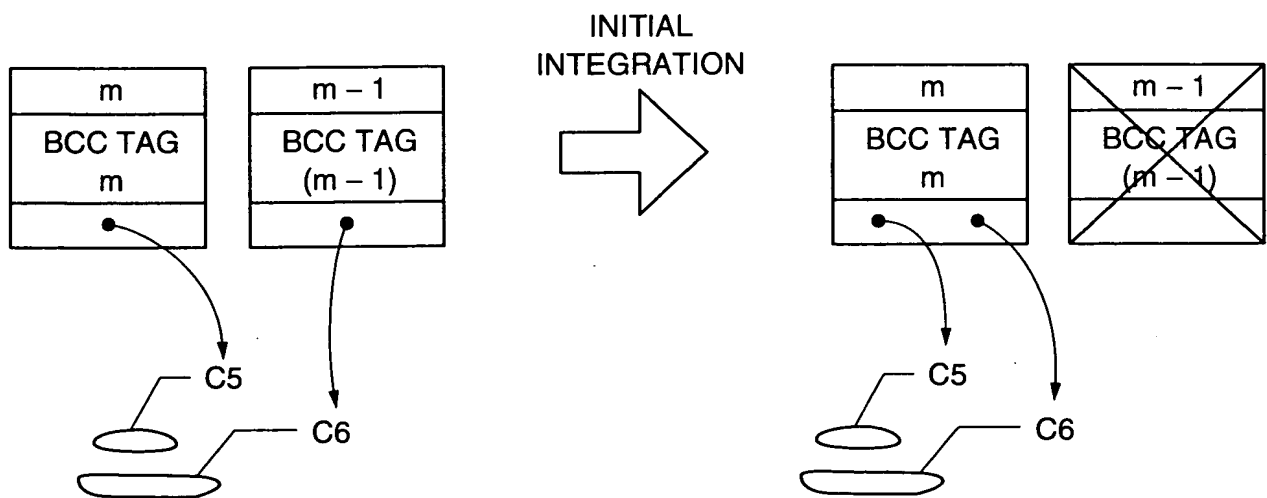


FIG. 40

9	6	2	5	4	10	1	11
R TAG	SR TAG 1	SS TAG 0	SR TAG 0	SS TAG 2	VS TAG 0	BCC TAG 1	E TAG

SR
TAG 1

VCC
TAG 0

SR
TAG 1 SS
TAG 0

VCC
TAG 1

SR
TAG 1 SS
TAG 0 SR
TAG 0

VCC
TAG 2

SR
TAG 1 SS
TAG 0 SR
TAG 0 SS
TAG 2

VCC
TAG 3

SS
TAG 0

VCC
TAG 4

SS
TAG 0 SR
TAG 0

VCC
TAG 5

SS
TAG 0 SR
TAG 0 SS
TAG 2

VCC
TAG 6

SR
TAG 0

VCC
TAG 7

SR
TAG 0 SS
TAG 2

VCC
TAG 8

SR
TAG 0 SS
TAG 2 VS
TAG 0 BCC
TAG 1

VCC
TAG 9

SS
TAG 2

VCC
TAG 10

SS
TAG 2 VS
TAG 0 BCC
TAG 1

VCC
TAG 11

VS
TAG 0

VS
TAG 0

BCC
TAG 1

VCC
TAG 12

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FIG. 41

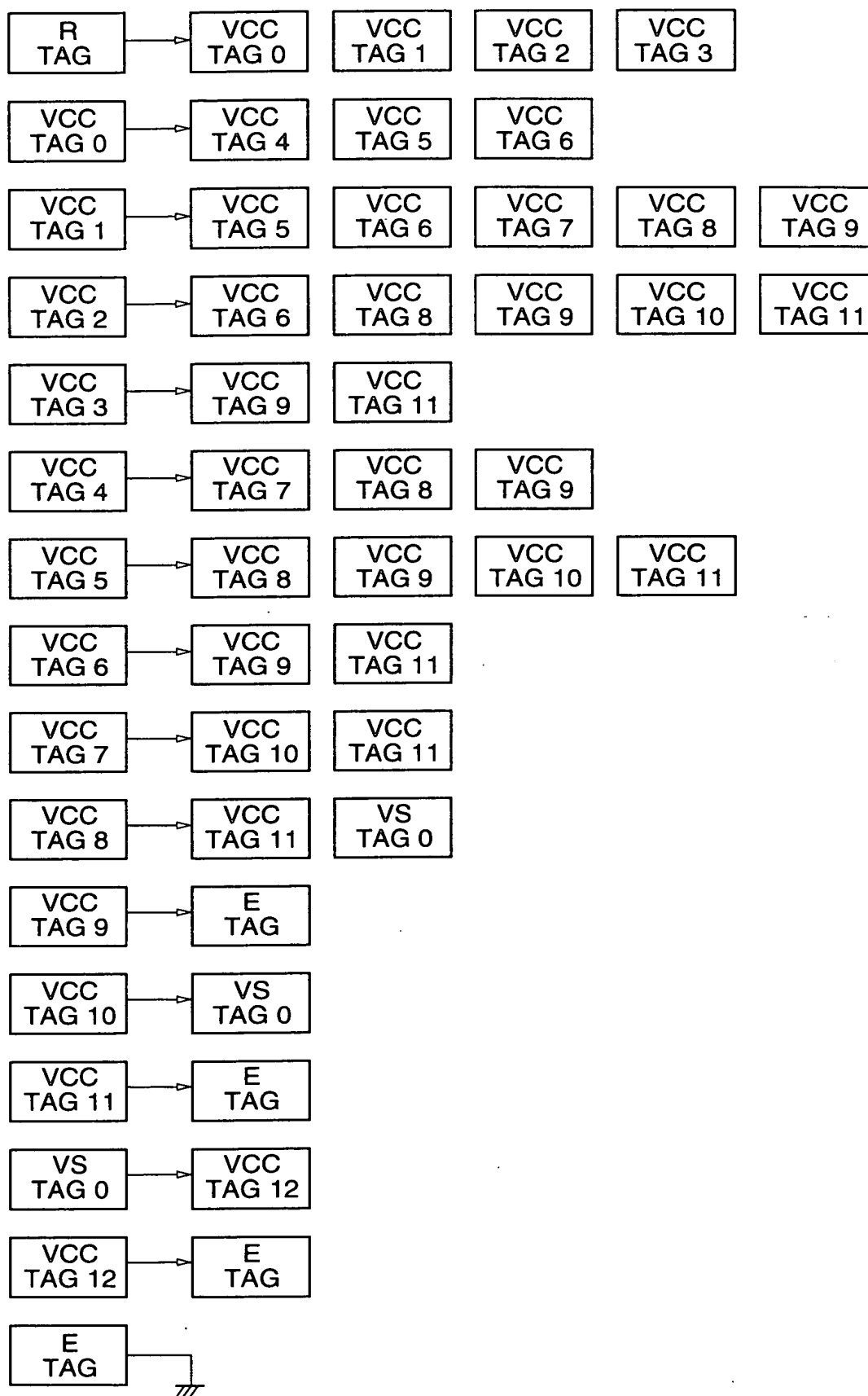


FIG. 42

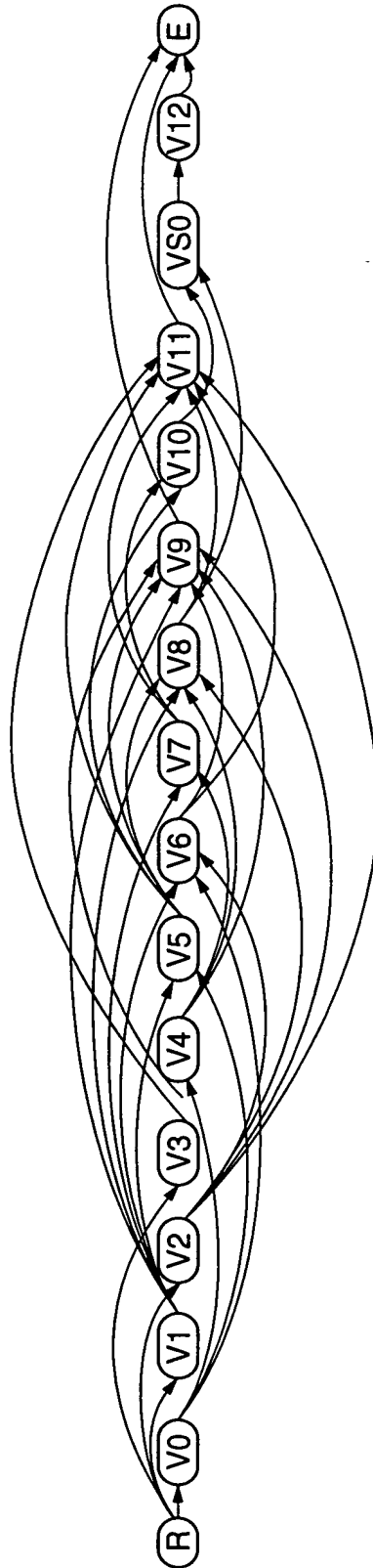


FIG. 43

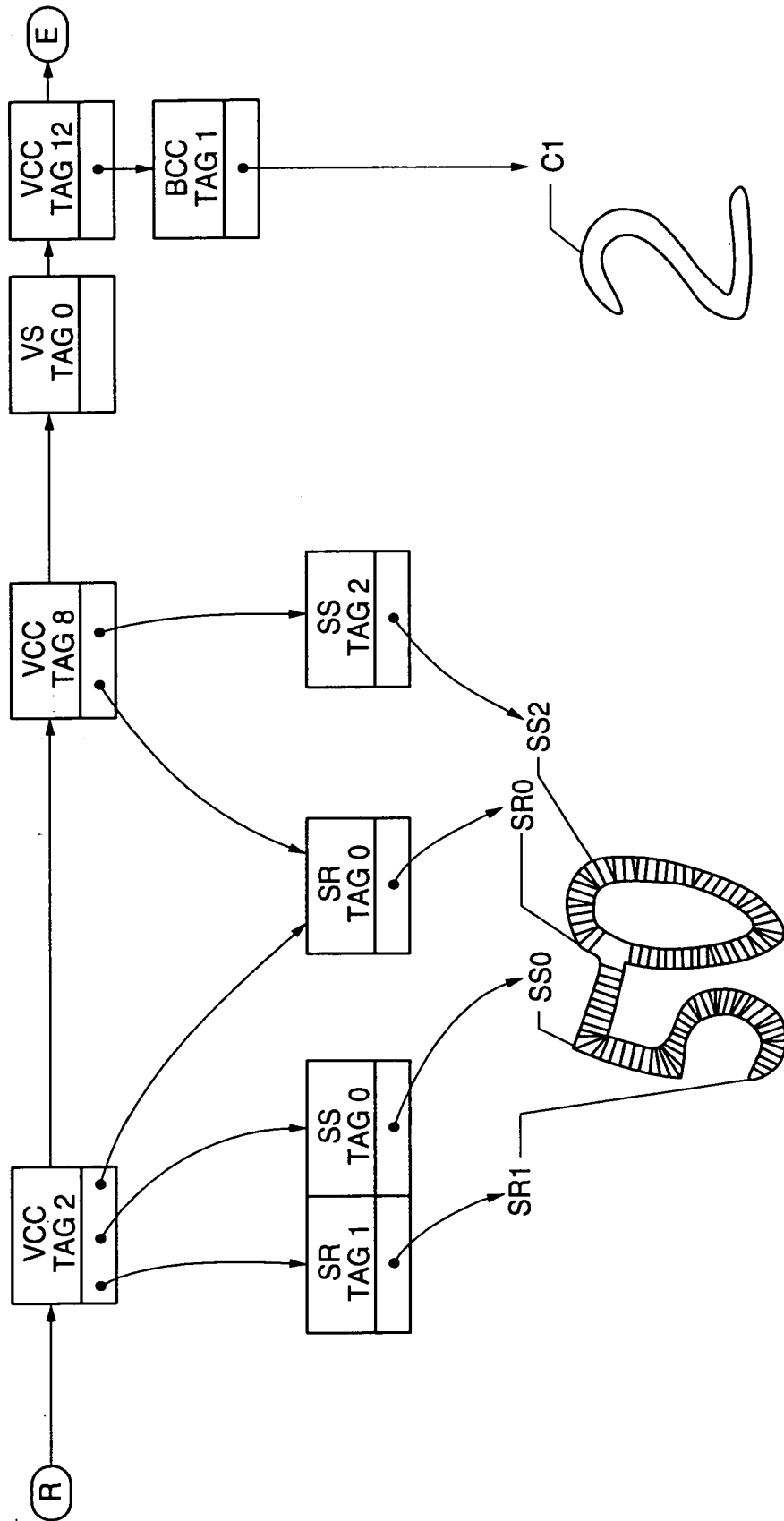


FIG. 44

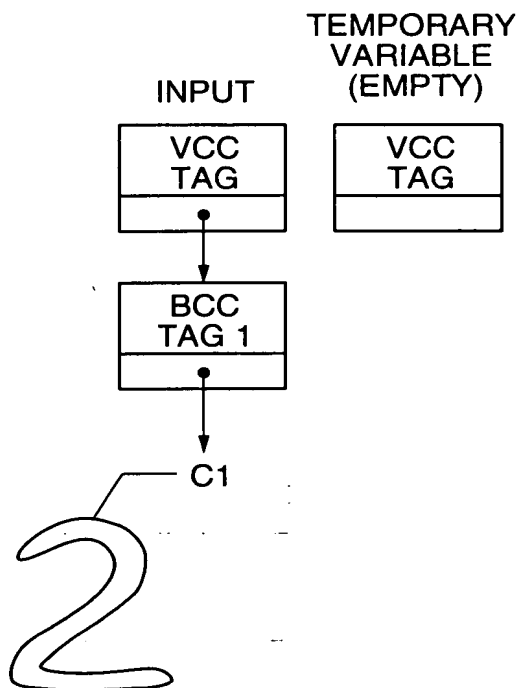


FIG. 45

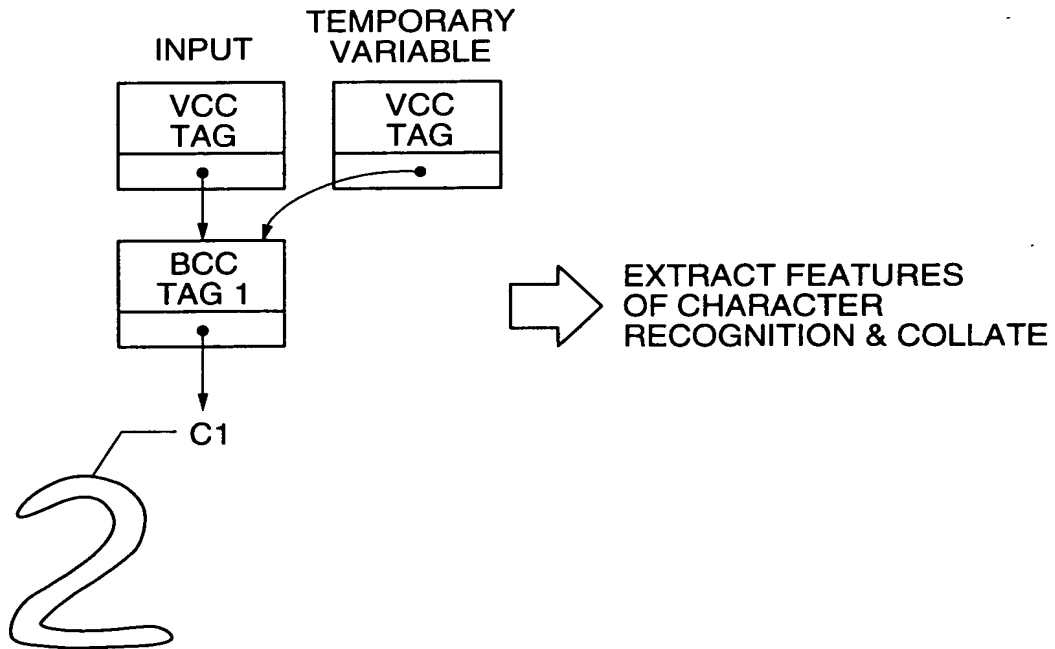


FIG. 46

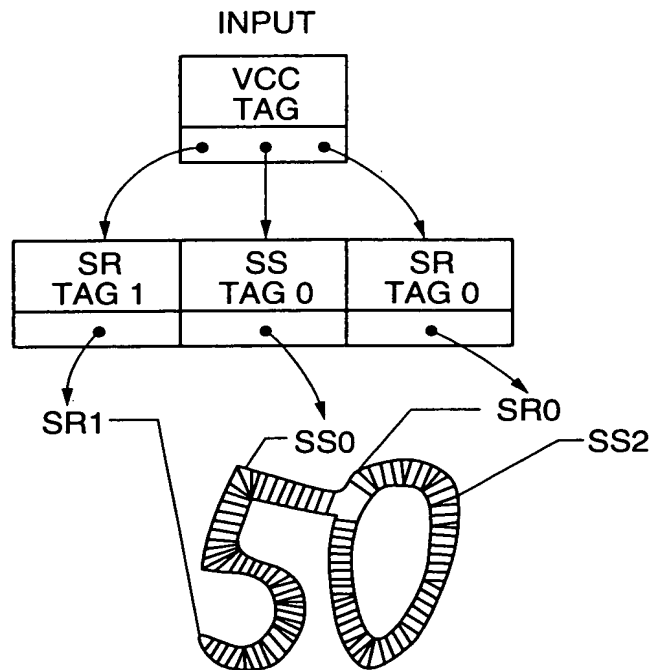


FIG. 47

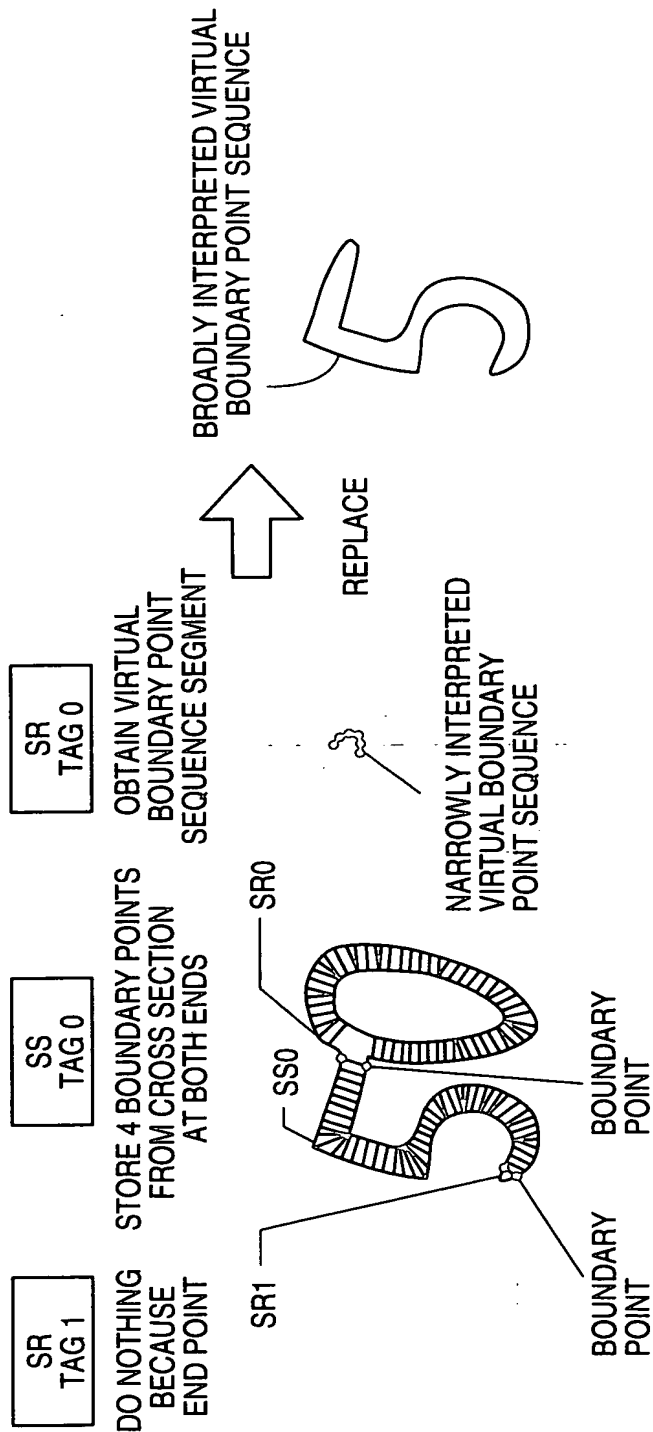
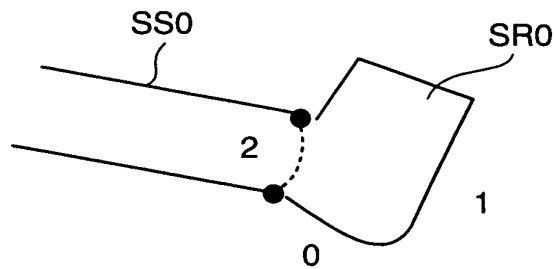


FIG. 48



KEY

SR0	START 2	END 2
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FIG. 49

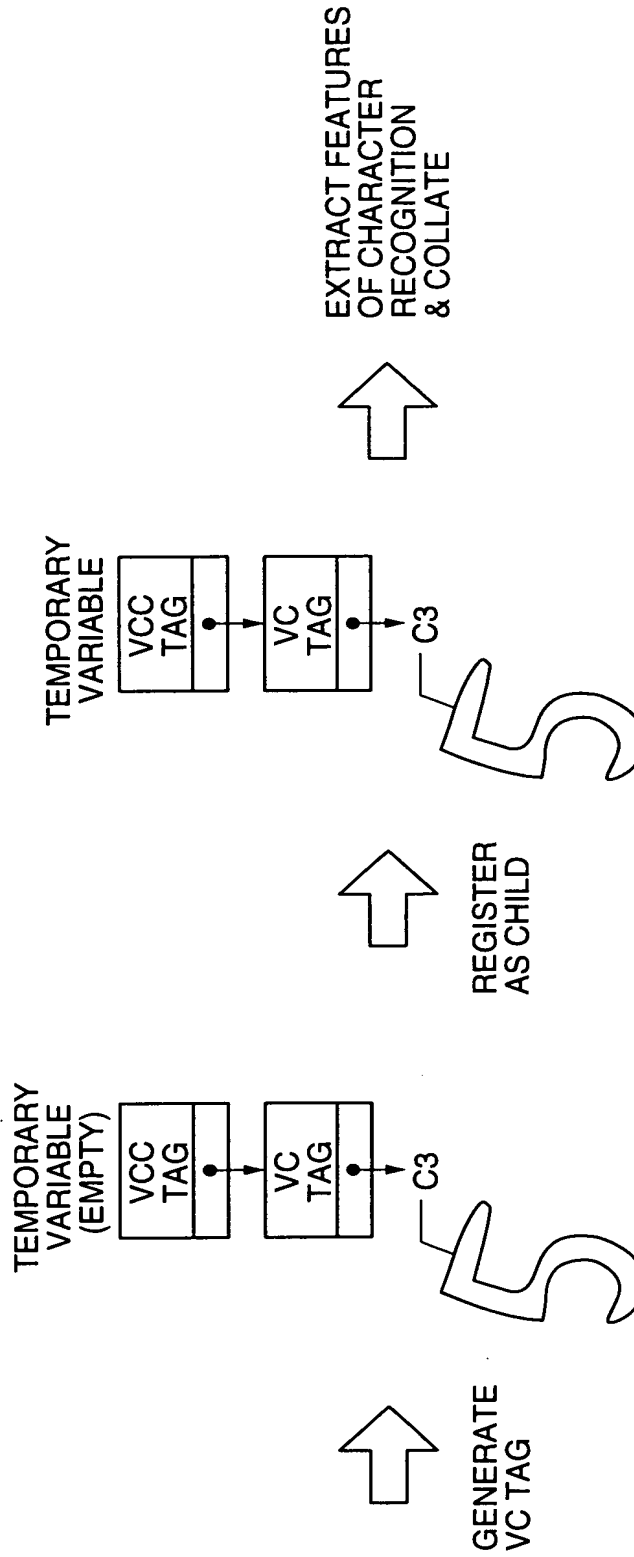


FIG. 50



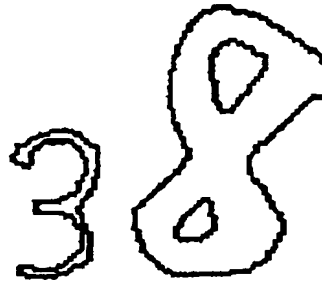
(a) IMAGE



(b) CROSS SECTION
SEQUENCE GRAPH



(c) VIRTUAL BOUNDARY
POINT SEQUENCE



(d) PROCESSED RESULT

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FIG. 51

